ENCYCLOPÆDIA AMERICANA.

A

POPULAR DICTIONARY

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BROUGHT DOWN TO THE PRESENT TIME;

INCLUDING

A COPIOUS COLLECTION OF ORIGINAL ARTICLES

IN

AMERICAN BIOGRAPHY;

ON

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ENCYCLOPÆDIA AMERICANA.

Monothersm; the belief in, and worship of, a single God, opposed to a plurality of gods (polytheism). The most ancient written records (the Bible), and the traditions of the most ancient nations. give us cause to regard this religion (in an imperfect state indeed) as the oldest and original religion. The Mosaic annals speak of God as the Creator of heaven and earth; and the ancient doctrines of the Bramins speak of a single divine nature holding preeminence over the three other principal divinities, which are to be re- dren. garded, as it were, as the three chief energies of a supreme God, viz. of the Para-brama, who is fully and clearly set forth, with all the attributes of divinity. Chaldeans, also, besides the light which they opposed to darkness, believed in a higher increase light, which is eternal, almighty, wise and good, and from which first proceeded the corporeal light. The Persians placed above their Ormuzd and Ahriman their Zeruanon Akherme, and the eternal word. Even the Egyptians had, in their Eikton, a Supreme Being, at least for their secret religion. All the different mythelogies have, among the host of gods with which they people heaven and earth, some supreme God, more or less defined, but, in every case, distinguished above the others. And in every instance we see, in these mythologies, the gods gradually multiplied, as man departed, farther and farther, from the simple and original revelation, till lost in the multitude of deified personifications which he' had himself created; but even in the case of the most refined polytheism, there always remains an idea of something more powerful, to which even the gods are subject, as the Fate of the ancients. The altar at Athens,

"to the unknown God," mentioned in the Acts of the Apostles, is also a proof of the prevalence of the same feeling. Reflecting minds, too, were always found, who deviated from the national polytheism, as the heathen philosophers, Parmenides, Socrates, Plato, &c., and many later Platonists, the Egyptian philosopher Psummon, who, according to Plutarch (Life of Alexander), inculcated the doctrine that God is the general Father of all men, choosing the best of them for his children. The history of the Hebrews affords the most striking instance of the preservation of monotheism amid the corruptions of paganism. Notwithstanding the errors into which they were frequently led by the example of the nations around them, they still preserved the idea of one God, the Creator of heaven and earth, till, from their view of Jehovah, whom they regarded and adored, for the most part, only as the original God of the chosen people, was unfolded the purer and more comprehensive monotheism of Christianity.

MONOTHELITE. (See Maronites.)

Monnor, James, one of the presidents of the U. States, was born April 28, 1758, in Westmoreland county, Virginia, on the Potomac, on land of which, a century and a half before, his ancestor, who first migrated to this country, was the original grantee. He was educated at William and Mary college, and, in 1776, entered the revolutionary army as a cadet. He was soon after appointed a lieutenant, and, in the summer of that year, marched to New York, and joined the army under the command of general Washington. He was engaged in the battle of Harlem Heights, in that of White Plains, in the

retreat through the Jerseys, and in the attack on Trenton. In the last, he was in the vanguard, and received a ball through his left shoulder. For his conduct in this action, he was promoted to a captaincy. General Wilkinson, in his Memoirs, bears strong testimony to the gallantry and zeal of Mr. Monroe, in the New Jersey campaign. He was soon after appointed aid to ford Sterling, and served in that capacity during the campaigns of 1777 and 1778, and was engaged in the actions of Brandywine, Germantown and Monmouth. He distinguished himself in these actions. By entering the family of lord Sterling, he lost his rank in the line, which he was anxious to regain; but, as this could not be regularly done, Washington recommended him to the legislature of Virginia, who authorized the raising of a regiment, and gave him the command. In the exhausted state of Virginia, colonel Monroe failed to raise his regiment, and therefore resumed the study of the law, under the direction of Thomas Jefferson, then governor of Virginia. He was active as a volunteer in the militia, in the subsequent invasions of Virginia, and, in 1780, visited the southern army, under De Kalb, as a military commissioner, at the request of geyerner Jefferson. In 1782, he was elected a member of the Virginia assemmember of the executive council, and, in 1783, at the age of twenty-four, a member of the old congress, in which he served three years. He was always at his post, engaged in the most arduous duties. introduced a resolution to vest in congress the power to regulate the trade with all the states, and other important resolutions. He was appointed a commissioner to settle the controversy between New York and Massachusetts. In 1787, he was again returned to the assembly of Virginia, and, in 1788, was a member of the convention of that state, to decide on the present constitution of the U. States. In 1790, he was elected a member of the senate of the U. States, in which body he served until 1794. In May, 1794, he was appointed minister plenipotentiary to France. Mr. Monroe was recalled from this mission in 1796, by president Washington, with an implied censure. In 1799, on the nomination of Mr. Madison, he was appointed governor of Virginia, in which situation, he served the constitutional term of three years. In 1803, he was appointed minister extraordinary to France, to act in con-

that consequence to this country, as it to the ted in the acquisition of Louisiana. In the same year, he was appointed minister to London, and the next year to Spaint in 1806, in conjunction with the late William Pinkney, he was appointed ministed to Bondon, where he pursued the negotiations with the Fox ministry. Mr. Monroe, having been prominently brought forward as a candidate for the presidency, as successor to Mr. Jefferson, had an option given him to remain at the court of London, or return. He returned, but soon after withdrew from the canvass. 1810, he was again elected a member of the assembly of Virginia, and, in a few weeks after the meeting of that body, governor of that state. Nov. 26, 1811, he was appointed secretary of state. The war department being in a very embarrassed state, on the departure of its head, general Armstrong, Mr. Monroe undertook it, and made extraordinary and very useful exertions to help the war on the lakes, and the defence of New Orleans. After he had reduced to order the war department, he resumed the duties of the department of state, which he continued to exercise until, in 1817, he was chosen by the people of the U. States the successor of James Madison. In 1821, he was reclected by a vote unanimous with a single exception, bly, and, the same year, by that body, a one vote in New Hampshire having been given to John Q. Adams. He was wise and fortunate in the selection of his ministers and measures. He went further than either of his two immediate predecessors, in maintaining the necessity of an efficient general government, and in strengthening every arm of the national defence. He encouraged the army, increased the navy, and caused those foreign naval expeditions to be sent out to the West Indies, the Mediterranean, the coast of Africa, and the shores of South America, which have given instruction to our officers, augmented the number of our seamen, protected the national commerce, and caused the country to be universally respected by distant nations. He ordered the principal head lands and exposed points along our borders and the seacoast to be accurately surveyed, plans of fortifications drawn, and the reports made up, with a view to the ultimate complete defence of the frontiers of the U. States, both on the land and sea side. He directed inquiries, surveys and plans, as to the most suitable sites for the northern and southern naval depots for the repair and junction with Mr. Livingston, the minister accommodation of our fleets during times resident there. This mission was of the of war and peace. The cession of Floriaccommodation of our fleets during times

da by Spain to the U. States was effected during his administration. It was during his administration that the emancipated Spanish and Portuguese colonies were formally recognised by the American government. He assumed high constitutional grounds in favor of internal improvement and the bank of the U. States. He was mainly instrumental in promoting the pension law for the relief of indigent revolutionary soldiers. During his administration, the illustrious Lafayette was invit-' ed to visit these shores as the guest of the He took the most energetic measures in favor of the abolition of the slave-trade, and continued to encourage the establishment of the principles of. commerce with all nations, upon the basis of free and equal reciprocity. It is a high · compliment to the firmness, judgment and sagacity of Mr. Monroe, that he proclaimed to the world the determination of the U. States not to suffer any European power to interfere with the internal concerns of the independent South American gov-The well-timed expression of ernments. this sentiment put an end to all rumors of any armed intervention in the affairs of Spanish America. Colonel Monroe retired from the office of president at the end of his second term. In the late stages of, his life, he was associated with the ex- to Spain, Austria, and France. passidents Jefferson and Madison, in founding and regulating the university of Virginia. Subsequently, he was chosen a member of the convention for amending the constitution of his native state, and presided over the deliberations of that assembly. He did not disdain to act as justice of the peace in the county of Loudon, . in which he resided. Mr. Monroe died at New York, on the 4th day of July, 1831, the inniversary of American independence, like the ex-presidents Adams and Colonel Monroe's biography Jefferson. is intimately and honorably connected with the civil and military history of the U. States. We have merely indicated the principal stations which he held, and the nature of the services which he performed. He was one of the leaders of the democratic or Jefferson party, and involved in most of the party questions and oc-currences by which the country was divided and agitated. He possessed a very energetic, persevering spirit, a vigor-ous mind, and extraordinary powers of application. In his unlimited devetion to the public business, he neglected his private affairs. He retired from office extremely deep in debt-a situation from missed him in five months, as a pupil who

most too late, by liberal appropriations of congress to satisfy the large claims which he preferred on the government for moneys disbursed and debts incurred on its account.

Mons (Latin for mountain); found in a great number of geographical names, particularly in languages, derived from the Latin, as Montigmy (inflamed mountain), Piedmont (foot of the mountain), Montpellier (Mons Puellarum), Montmirail (admirable mountaiu), Montmartre (mountain of Mars or of the martyrs), Montreal (roy-

al mount), Vermont (green mountain), &c.
Mons (Berghen); a city lately belonging to the kingdom of the Netherlands, at present in the kingdom of Belgium, capital of the province of Hainaut, situated on a steep hill, on the Trouille. Since 1818, its fortifications have been much extended and strengthened, and it now forms one of the strongest frontier fortresses of Belgium. The country around can be easily laid under water. Population, 20,000. Its manufactures have been' considerable, consisting of woollen, linen and cotton goods, oil, soap, pottery; and it has carried on an extensive trade in coals. obtained in the neighborhood, hops, grain, cattle, horses, mill-stones, marble. Mons is an old city, and has belonged by turns (See Netherlands.)

Monseigneur (French, my lord); a title of dignity in France; the dauphin was formerly styled monseigneur, without any addition. Princes, archbishops, bishops, cardinals, marshals of France, presidents of parliament, &c., were addressed by this title: The plural is messeigneurs. The Italian monsignore is used in a similar mannér.

Monsieur (in French), used simply, without any additions formerly designated the king's eldest brother. In common use, it answers both to the English sir and Mr., and is also used before titles. In writing, it is expressed by the abbreviation M. The plural is massicurs. Monsieur is sometimes used by English writers as a term of contempt for a Frenchman.

Monsieny, Pierre Alexandre, born 1729, in Artois, a popular musical composer, , who is considered as the creator of the French comic opera. While young, his talent for music was suddenly awakened by his witnessing the performance of Percolesi's Serva Padrona, and he devoted himself entirely to the study. He learned composition under Giannotti, who diswhich he was relieved, though when al. knew all that he could teach. But Gian-

notti was astonished to find that his pupil had already composed an opera, Les Aveux indiscrets., which he brought out, after having recast it, three years afterwards (1759). Encouraged by its success, he produced, in 1760, Le Cadi dupt and Le Maitre en Droit. Thoupera On ne s'Avise junais de tout, brought forward in 1761, completed the musical revolution at the théaire de la Foire, which then took the name of the Italian opera. Le Roi et le Fermier; Rosc et Colas; Aline, Reine de Golconde; L'Isle sonnante; Le Deserteur, &c., were received with great applause. On the death of Gretry, Monsigny succeeded him in the institute, and on the death of Piccini, in 1800, he was appointed director of the conservatoire, at Paris. He died in 1817.

Monsoons (from the Malay mussin, season); periodical trade-winds, which blow six months in one direction, and the rest of the year in an opposite one. They prevail in the Indian ocean, north of the 10th degree of south latitude. From April to October, a violent south-west wind blows, accompanied with rain, and from October to April a gentle, dry north-east breeze prevails. The change of the winds, or the breaking up of the monsoons, as it is called, is accompanied by storms and hurricanes. These periodical siderable influence in the production of currents of winds do not reach very high, as their progress is arrested by mountains of a moderate height. (See Winds.)

Monstens; in physiology, creatures whose formation deviates in some remarkable way from the usual formation's , of their kind. The deviation consists or several organs; sometimes, on the contrary, in a deliciency of parts; semetimes in a malformation of the whole or some portion of the system, and sometimes in the presence of organs or parts not ordinarily belonging to the sex or spe-In most cases, these unusual formations are not incompatible with the regular performance of the natural functions, although they sometimes impede strelet died in 1453. them, and, in some cases, are entirely inconsistent with the continuance of the vital action. It is not surprising that we should be ignorant of the manner in which monsters, or irregular birds, are the valleys of Chamouni (q. v.) and Engenerated or produced; though it is probiteves; lat. 45° 50′ N.; lon. 6° 52′ E. able that the laws by which these are governed are as regular, both as to cause and effect, as in common or natural pro-

subsequently by the power of the imagination of the mother, transferring the imperfection of some external object, or the mark of something for which she longed, and with which she was not in-dulged, to the child of which she was pregnant, or by some accident which happrened to her during her pregnancy. But this has been disproved by common observation, and by philosophy, not, per-haps, by positive proofs, but by meny strong negative facts; as the improbability of any child being born perfect, had such a power existed; the freedom of children from any blemish, though their mothers had been in situations most exposed to objects likely to produce them; the ignorance of the mother of any thing being wrong in the child, till, from in-formation of the fact, she begins to recollect every accident which happened durring her pregnancy, and assigns the worst or the most plausible as the cause; the organization and color of these adventitious substances; the frequent occurrence of monsters in the brute creation, in which the power of the imagination cannot be great; and the analogous appearauces in the vegetable system. Judging, however, from appearances, accidents may perhaps be allowed to have conmonsters of some kinds, either by actual injury upon parts, or by suppressing or deranging the principle of growth, because, when an arm, for instance, is wanting, the rudiments of the deficient parts may generally be discovered.

Monstreller, Enguerrand de, a chronsometimes in an unusual number of one , icler of the fifteenth century, born at Cambray, of which he became governor, was the author of a history in French, of his own times. The history extends from 1400 to 1467; but the last fifteen years were furnished by another hand. It contains a narrative of the contentions of the houses of Orleans and Burgundy, the capture of Normandy and Paris by the English, with their expulsion, &c. Mon-

MONT BLANC (white mountain); the Joftiest mountain of Europe, one of the summits of the Pennine Alps, on the borders of Savoy and Aosta, between tion above the surface of the Mediterraas in common or natural pro-Formerly, it was a general by M. Deluc, 15,302 feet; M. Pietet, opinion, that monsters were not primordial 15,520; air George Shuckburgh, 15,662; or aboriginal, but that they were caused M. Saussure, 15,670; M. Trailes, 15,780.

Its elevation above the valley of Chamouni is 12,160 feet. It is discernible from Dijon and Langres, 140 miles distant. It receives its name from the immense mantle Mouse and Country Mouse a travesty of snow with which its summit and sides are covered, and which is estimated to extend not less than 12,000 feet, without the least appearance of rock to interrupt its glaring whiteness. An ascent to the summit was first made, in 1786, by doctor Pacard, of Chamouni, and his guide, James Balma. In August, 1787, Saussure ascended it with 18 guides, and remained on the summit five hours. The pulse was found to beat more rapidly, and the party complained of exhaustion, thirst, and want of appetite. The color of the sky was very deep blue bordering on black, and in the shade the stars were visible. Up to 1828, fourteen ascents had been made. In 1818, Messrs. Howard and Van Renssalaer from New York, in 1825, doctor Clark and captain Sherwill, ascended it.—See Sherwill's Visit to the Summit of Mont Blanc (Loudon, 1827). In 1827, two English gentlemen, who made the attempt, were obliged, by a new cleft in the ice, to take a new course, which has proved to be less toilsome and hazardous than the former. Eighteen glaciers lie around, whose various and fantastic forms increase the magical effect. of the wonderful spectacle from the summit, from which the view extends nearly 150 miles in almost every direction. The 'tion, though little can be said in praise of highest summit is a small ridge, about six feet wide, precipitous on the north side, and called in Savoy, the dromedary's back. It is covered with a solid body of snow. (See Alps, Glaciers, Andes, Himalaya, and Mountains.)

Mon't v'OR; a mountain of France, in Puy-de-Dôme, about 6130 feet above the level of the sea, abounding in curious

plants and mineral springs.

MONT PERDU; summit of the Pyrences. on the frontier line between France and Spain; about 100 miles east of the bay of Biscay, and further west from the Mediterranean. It has a double summit. one computed at 10,700 feet, or, by another statement, 11,265 feet high; the other at 10,400. The line of perpetual congelation here is about 7500 feet in height.

was descended from the family of the lived chiefly at her busband's seat of Montagus, earls of Manchester, and was Wharncliffe, near Sheffield, until the lateducated at Westminster school, and ter, being introduced to a seat in the Trinity college, Cambridge. From the treasury, by the earl of Halifax (see the

uttracted notice by his verses on the death of Charles II; and, in 1687, he wrote, in conjunction with Prior, the City on Dryden's Hind and Panther. In the reign of William III, he obtained the place of clerk of the privy council, and became a member of the house of commons. In 1694, he was made chancellor of the exchequer, and subsequently first lord of the treasury. His administration was distinguished by the adoption: of the funding system, and the establishment of the bank of England. In 1698, Montagu was a member of the council of regency during the absence of the king, and, in 1700, was raised to the peerage. In the reign of Anne, when tory influence prevailed, he was twice impeached; before the house of lords; but the proceedings against him fell to the ground, George I created bim carl, and bestowed on him the order of the garter; but Halifax, being disappointed in his expectation of obtaining the office of lord treasurer, joined the opposition. His death took place May 19, 1715. The poems and speeches of lord Halifax were published, with biographical inemoirs, in 1715 (8vo.); and the former were included in the edition of English Poets, by doctor Johnson. He aspired to the character of the Meccaes of his age, and his patronage of Addison is creditable to his discriminahis munificence.

MONTAGU, lady Mary Wortley, one of the most celebrated among the female Merary characters of England, was the eldest daughter of Evelyn, duke of Kingston, by his wife lady Mary Fielding, the daughter of the carl of Denbigh. was born about 1690, at Thorosby, in 'Nottinghamshire, and displaying uncommon abilities at an early age, was educated upon a liberal plan, and instructed by the same masters as her brother, in the Greek, Latin and French languages. In her twentieth year, she gave an extraordinary proof of her erudition, by a translation of the Enchiridion of Epictetus, which was revised by bishop Burnet, by whom her education was ultimately superintended. Her mind was nourished in great com-Morragu, Charles, earl of Halifax; an parative retirement, previously to her English statesman and poet, born at Hormaniage, in 1712, with Edward Wortley ton, in Northamptonshire, in 1661. He Montagu. Even after her marriage, she university he went to London, where he preceding article), brought his lady to

London. Being thus placed in the sphere of the court, she attracted that admiration which beauty and elegance, joined to wit and the charms of conversation, never fail to inspire. She became familiarly acquainted with Addison, Pope, and other distinguished writers. In 1716, Mr. Wortley being appointed ambassador to the Porte, July Mary determined to accompamy him, and hence her admirable correspondence, chiefly consisting of letters ad-Cressed to the countess of Mar, lady Rich and Mr. Pope; to whom she communicated her observations on the new and intoresting scenes to which she was a witness. On many occasions she displayed a mind superior to common prejudices, but in none so happily as in a courageous adoption of the Turkish practice of inoculation for the small-pox in the case of her own. son, and a zealous patronage of its introduction into England. In 1718, Mr. Wortley returned to England, and at the request of Pope, lady Mary took up her summer residence at Twickenham, and a friendship was formed between these kindred genuises, which gradually gave way to dislike, produced by difference of political opinion, petulance and irritability on the side of the poet, and no small disposition to sarcastic keenness on that of the lady; and a literary war ensued, which did honor to neither party. Lady Mary preserved her ascendency in the world of rank and fashion until 1739, when, her health declining, she took the resolution of passing the remainder of her days on the continent, not without the world sur-mising that other causes concurred to induce her to form this resolution. She, however, retired with the full concurrence of her husband, with whom her subsequent correspondence betrays neither re-sentment nor humiliation. Venice, Avignon and Chamberry were, in turn, her residence, until the death of Mr. Wortley, in 1761, when she complied with the solicitations of her daughter, the countess of Bute, and returned to England, after an absence of twenty-two years. She enjoyed a renewal of family intercourse for a short time only, as she died of a gradual decay, in 1762, aged seventy-two. As a poetess, lady Mary Wortley Montagu exhibits case, and some powers of description; but she is negligent and incor-The principal of her performances in this class is her Town Eclogues, a satirical parody of the common pastoral, applied to fashionable life and manners. As a letter-writer, her fame stands very high; her letters were collected and

copied by herself, and presented, ih 1766, to the reverend Mr. Sowden, of Amsterdam, of whom they were purchased by the earl of Bute: a surreptitious copy of them was published in 1763, in 3 vols., 12mo. The authenticity of these letters, which obtained universal admiration for their wit, judgment and descriptive powers, was, for a long time, doubted; but all distrust was done away by the following publication, under the sanction of the enrl of Bute: the Works of the Right Honorable Lady Mary Wortley Montagu, including her Correspondence, Poems and Essays, published by permission from her genuine papers (London, 1803, 6 vols., 12mo.), with a Life, by Mr. Dallaway. This edition contains many additional letters, written in the latter part of her life, which display much excellent sense and solid reflection, although tinged with some of the prejudices of rank, and indicative of increasing misauthropy.

Montage, Edward Wortley, the only son of the subject of the preceding article, was born in 1713. At an early age, he was sent to Westminster school, from which he ran away three times, and, associating homself with the lowest classes of society, passed through some extraordinary adventures, sailed to Spain as a cabinboy, and was at length discovered by the British consul at Cadiz, and restored to A private tutor was then his family. provided for him, with whom he travelled on the continent. During his residence abroad, he wrote a tract, entitled Reflections on the Rise and Fall of Ancient Republies. On his return to Lingland, he obtained a seat in the house of commons; but, living extravagantly, he became involved in debt, and left his native country never to return. His future conduct was marked by eccentricities not less extraordinary than those by which he had been distinguished in the early part of his life. He went to Italy, where he professed the Roman Catholic religion; and from that he apostatized to become a disciple of Mohammed, and a scrupulous practiser of the formalities of Islamism. After passing many years in Egypt, and other countries bordering on the Mediterranean, he was about to return to England, when his death took place at Padua, in Italy, in 1776. He was the author of an Examination into the Causes of Earthquakes, and some papers in the Philosophical Transactions.

MONTAGU, Elizabeth, a lady of literary celebrity, was the daughter of Matthew Robinson, of the Rokeby family, and was

of prosecuting her studies under the di- studies at the college of Bordenux, under rection of doctor Conyers Middleton, to whom she was probably indebted for the tincture of learning which so remarkably influenced her character and manners. In 1742, she became the wife of Mr. Mon- tagu, who left her mistress of a handsome fortune, which enabled her to gratify her taste for study and literary society. In 1769, she published an Essay on the Writings and Genius of Shakspeare. This work raised Mrs. Montagu to the rank of an arbitress of public taste. She opened her house, in Portman-square, to the Blue-Stocking Club—a society so denominated from a peculiarity in the dress of Mr. Benjamin Stillingfleet, one of the members; and carried on an epistolary correspondence with men of letters, published

after her death, August 25, 1800. MONTAIGNE, Michel de, one of the most ingenious French writers, was born Feb. 28, 1533, at the castle of the same name, belonging to his family, in Perigord. His father, Pierre Eyghem, seigneur de Montaigne, an Englishman by birth, and a bra soldier, who had been chosen mayor of Bordeaux, bestowed the greatest care on the cultivation of young Michel's promising talents, but adopted a peculiar mode of education. In order to facilitate his son's acquisition of the Latin language, which he had himself found difficult, he employed a German tutor, entirely ignorant of French, but complete master of Latin, before the child had left the murse's arms; and as all the family were Dever permitted to speak any other language in the presence of the child, he had the pleasure of seeing the infant so completely matriculated into it as to be obliged to learn the French as a foreign tongue. "We all Latinized," says Montaigne, "at the castle, in such a manner that several Latin expressions came into use in the villages around, which exist to this time." Greek he learned in the usual manner, after it had been attempted in vain to delude him into a knowledge of it. The treatment of his father, was peculiar in some other respects; thus he caused him to be waked in the morning by the sound of musical instruments, lest the genius of the boy should be injured by his being roused too suddenly; he allowed him the most unrestrained indulgence in his plays, and endeavored to lead him to the faithful performance of his duties solely by inspiring him with a sense of right and Montaigne always shows the wrong. greatest regard for his father's memory.

born in 1720. She had an opportunity At the age of 13, he had finished his Grouchy, Buchanan and Muret. father destined him for a judicial station, and married him somewhat later to Francoise de la Chassaigne, daughter of a connsellor of the parliament of Bordeaux. Montaigne was for some time a parlinmentary counsellor, but his aversion to the duties of the station led him to retire from it. The study of man was his favorite occupation. To extend his observations, and to restore his health, which had been shattered by the attacks of a hereditary disease (the stone), he travelled in Germany, Switzerland and Italy, and was every where received with great distinction. At Rome, which he visited in 1581, He received the title of a Roman citizen. In 1582, he was chosen mayor of Bordeaux, and the citizens of that place were so well satisfied with his administration, that they sent him to the court (in 1581), to attend to their interests there. Without doubt, the order of St. Michael was conferred on him by Charles IX, at this time, without any solicitation on his part, as has been reported. After making several other journeys of business, he returned to his castle, and devoted himself entirely to philosophy. His quiet, however, was disturbed by the troubles which distracted France in consequence of the cruel persecutions of the Huguenots; his castle was plundered by the leaguers, and he himself was ill treated by their adver-To these causes of distress was suriés. added the plague, which broke out in Guyenne, in 1586, and compelled him to leave his estate, with his family, and wander through the country, which was then the theatre of all kinds of atrocities. He then resided some time in Paris, hut finally returned home, and died in 1592, after much bodily suffering, with the composure of a philosopher. Montaigne has described himself in his celebrated Essais; but he confesses only the lighter He acknowledges himself indolent and averse to restraint, and complains of the badness of his memory. He had few of what are commonly called friends, but to his chosen intimates he was warmly attached. He loved to converse on familiar terms with educated men, whose observations were teinls d'un jugement mur et constant, et mélés de boulé, de franchise, de gwieté et d'amitié. He was also fond of the society of handsome and intelligent women, although hestays one should be on his guard against them. The imagination he considered a fruitful

education which have been revived in our * times, without his receiving the credit of them; he wished that children should emoy both physical and moral freedom; synthing he considered as injurious, and was of opinion that habit would enable us to dispense with all clothing. His views on legislation and the administration of justice enlightened his own age and have been useful to ours. He endeavored to simplify the laws and legal processes, and very justly remarks that laws are often rendered futile or injurious by their excessive rigor. His moral system was in general indulgent, but on some points, strict. Speculative philosophy he rejected, devoting himself to the lessons of expericuce. He studied human nature in children and illiterate peasants. Equally removed from a general skepticism and from dogmatism, he was accustomed to suggest possibilities instead of making assertions, and to throw light on his subject from every point. His motto was Que sais-je? His great work, his Essais (first published in 1580, and often republished and translated into many languages), contains a treasure of wisdom. It may still be deemed one of the most popular books in the French language. The essays embrace a great variety of topics, which are touched upon in a lively, entertaining. manner, with all the raciness of strong, native good sense, careless of system or regularity. Sentences and ancedotes from the ancients are interspersed at random with his own remarks and opinions, and with stories of himself, in a pleasant strain of egotism, and with an occasional license, to which severer casuists can with some difficulty reconcile themselves. Their style, without being pure or correct, is simple, bold, lively and energetic, and, according to La Harpo, he "impressed on the French language an energy which it · did not before possess, and which has not become antiquated, because it is that of sentiments and ideas, and not alien to its idions. It is not a book we are reading, but a conversation to which we are listen-Coste (3 vols., 4to., London, 1724). His style though not always pure and correct, accurate and clevated, is original, simple, lively, bold and vigorous. Besides his Essays, his Voyages deserve mention, although not intended for publication. Montaigne also translated, at the request of his father, a treatise on Natural Theology by Raymond Schonde. There are

source of evil. He had many ideas on two English translations of the Essays, one by Charles Cotton, and an earlier one by John Florio.

MONTALEMBERT, Marc René, marquis. de, born at Angoulème, in 1714, entered the army in his 18th year, served in the campaign of 1733, and distinguished himself at the sieges of Kehl and Philippsburg. As a reward for his services, the company of the prince of Conti's guards was given him. After the peace, he devoted his leisure to the sciences, and entered the academy in 1747, whose memoirs contain some of his papers, no less remarkable for the originality of their ideas than for their purity and elegance of style. During the seven years' war, he was stationed with the Russian and Swedish armies, and, at later periods, was sent to Brittany and the isle of Oleron, the latter of which he fortitled on his new system. In 1779, he erected a wooden fort on the island of Aix, which astonished scientific men by its . strength and completeness. His extravagance obliged him, in 1790, to sell his estate in the Angoumois, for which he received payment in assignats, and passed the rest of his life in poverty. As spartism of the revolution, he (1789) surrendered his pension, which had been conferred on him on account of the loss of an eye. During the stormy period of the revolution, he was imprisoned. He died in 1800. Among his works are La . Fortification perpendiculaire, on Art défensif superieur à l'Art offensif (11 vols., 4to.); Memoire sur les Affils de la Marine ; Réflexions sur le Siège de Saint-Jean d'Arc ; Mémoires ou Correspondance avec les Généraur et les Ministres, from 1761 to 1791; with some comedies, tales and chansons.

Montanus, in the middle of the second century, bishop of Pepuza, in Phrygia, an illiterate man, who gave himself out for the promised Comforter, who was to bring to perfect maturity the Christian system. In his doctrines, he deviates from the received opinions only in-maintaining that all true Christians receive the inspirations of the Holy Ghost. The chiliastic or millennarian notions, and his rigid adherence ing; and he persuades, because he does to the letter of the law, he had in common, not teach." The best edition is that of with the Judaizing Christians; and the moral peculiarities of his sect consisted merely in a more strict observance of externals, frequent fasts, the contempt of heatherish learning and worldly conven. iences, abstinence from second narriage, and a willingness to submit to celibacy and martyrdom. His disciples called themselves Pneumatici, from a belief in their superior spiritual perfection; they

were also called Pepuzians and Phrygians, because their doctrines principally prevailed in Phrygia and Asia Minor in gen-Tertullian, himself a Montanist, defends their monastic rigor. On the other (q.v.); hence his title of duke of Monte Bello. hand, the Alexandrian school, which was inclined to the Gnostic dogmas, opposed their fanaticism till they became extinct. in the fourth century, with the exception of some remains which survived a short time in Gaul, where the sect had been in-troduced by Phrygian colonists.

Montassar. (See Caliph, vol. 2, page

•410.)

Montauban; a city of France, in the department Tarn and Garonne, see of a bishop, with some public offices and 26,466 inhabitants. It is finely situated and well The cathedral, the episcopal palace, the hotel de ville, and the bridge over the Tarn, are particularly worthy of being seen. Lat. 44° 0′ 55″ N.; lon. 1° 21′ E.; 140 leagues south of Paris. During the religious wars in France, Montauban was a stronghold of the Huguenots, and was besieged in 1580 by Montluc, and in 1621 by the troops of Louis XIII, without success. It suffered severely from the dragonnides, under Louis XIV.

MONTAUK POINT; the eastern extremity of Long Island, New York, in Easthumpton; lon. 72° W.; lat. 41° 4′ N.; with

a light-house.

Montbelliard (in German, Milmpelgard); a city of France, in the department of the Doubs, in a fertile plain, commanded by an old castle, formerly the residence of the princes of Montbelliard; 4600 inhabitants. It was formerly strongly fortified, but Louis XIV captured it, and demolished the works, in 1674. It was ceded to France, with the territory forming a county of the same name, in 1796. Lon. 6° 44' E.; lat. 47° 31' N.

Montcalm de Saint-Veran, Louis Joscph, marquis of, licutenant-general in the French service, was born near Nimes, in 1712; after receiving a careful education, entered the military service in his 15th year, and distinguished himself on several occasions. In 1756, he was sent to Canada, as commander-in-chief of the French American colonies; and, although exposed, with a feeble army, to the rigors of a severe climate, and neglected by the mother country, he obtained repeated advantages over lord Loudon in the first campaign, gained a complete victory over Abercromby in the second, and fell, under the walls of Quebec, in 1759, in the battle with Wolfe.

MONTE BELLO; an Austrian town in first brilliant exploit was in 1639, when,

Vicenza, in Italy, 13 miles south-west of . Vicenza; population 1500. Here was an engagement, in 1796, between the Austrians and French under marshal Lannes

Monte Casino; a celebrated benedictine abbey in the kingdom of Naples, in the province Term di Lavoro, near the small fown of S. Germano, and about 45 miles from the city of Naples, founded by St. Benedict of Norcia, in 529. It is situated on a mountain, from which it derives its name, near the ruins of the ancient Casimum, and is approached by a well-paved and winding road, the ascent of which occupies about two hours. The abbey, after having suffered repeated reverses, finally became considerable for its privileges and its wealth, and in the 11th and 12th centuries was the seat of science, particularly of medicine, the celebrated school of Salerno having been founded by the monks of Monte Casino. The church is very magnificent, although overloaded with ornament, and contains the tomb of 'the founder; the library is valuable, and there are many valuable pictures belonging to the abbey, particularly in the room and tower which St. Benedict is said to have inhabited. The monastery has served as a place of refuge to several sovereigns and pontitis, and was formerly much visited by pilgrims and travellers, who were entertained free of expense. A hospitium, with four monks, was also supported at S. Germano, where travellers were received and provided with mules for continuing their journey to the abbey. At present, the road on which it lies is little frequented; the neighborhood is infested with robbers, and the old abbey has few visitors. (See Benedict, St., and Benedictines.)

MONTE CIRCELLO (anciently Circaum, promonlorium, or jugum); a mountainous cape of Italy, near the sea, and by the aucients called an island, and celebrated as the habitation of Circe, the sorcerese, who 'used to transform her lovers into brute animals. On this promontory once stood a town called Circaum; here was a chapel dedicated to Circe, and an altar to Miner-Fifty miles south-east of Rome; lon. 12° 57′ E.; lat. 41° 17′ N.

MONTECUCCULI, or, more correctly, MONTECUCCOLI, prince Raymond, one of the greatest military commanders of modern times, born in the Modencse, in 1608; bore arms at first in the capacity of a common soldier, under his uncle, and rose successively through all the ranks. His

by a forced march, at the head of 2000. horse, he surprised a body of 10,000 Swedes, and captured all their artiflery Buner (q. v.), however, and baggage. hastened to attack the victor, and made him prisoner. Montecuccoli now passed two years of captivity in the assiduous study of the military art. In 1646, he gained a victory over general Wrangel, at Triebel. After the peace of Westphalia (1648), he visited Sweden, and then returned to Modena, where, at a currousel in honor of the marriage of the duke, he had the misfortune to kill his friend, the count Manzani. In 1657, the emperor of Germany sent him to the aid of John Casimir. king of Poland, against Ragotsky and the Swedes. Montecuccoli defeated the Transylvanians, and drove the Swedish forces from Cracow. Charles Gustavus, king of Sweden, then attacked Denmark; but Montecuccoli hastened to its defence, and relieved Copenhagen by land before the Dutch could introduce reinforcements by The peace which followed this success did not leave him long in retirement: the conqueror of Ragotsky was now employed to protect that prince against the Turks. He compelled them to withdraw from Transylvania, and, by a wise system of delay, bailled all the attempts of their formidable force, until the arrival of the French, by whose aid he gained the great victory of St. Gothard (1664). This victory led to a peace, and Montecuccoli was made president of the imperial military council. On the breaking out of the war between the empire and France, he was placed at the head of the imperial troops, and checked the progress of Louis XIV, by the capture of Boun, and by forming a junction with the prince of Orange in spite of Turenno and Condé. The next year, the chief command was taken from him, but was restored in 1675, that he might make head against Turenne, on the Rhine. Montecuccoli was the only adversary worthy of that great commander. They spent four months in following and observing each other, each conjecturing the movements of his opponent by what would be his own in the same circumstances, and they were never deceived. They were on the point of risking a battle, when the French general was killed by a cannon ball. (See Turenne.) In the letter of Montecuccoli to the emperor. in which he speaks of the death of his great rival, he says that he cannot help regretting the loss of a man who was an honor to human nature: these words hehad repeated several times on hearing the

news of Turenne's death. The prince of Condé could alone dispute the superiority which that event gave him. The prince was at first worsted, but finally succeeded in making head against the imperial commander, who considered this campaign as the most glorious of his life-not because he conquered, but because he was not conquered. Montecuccoli passed the remainder of his life at the imperial court, the patron of learning, and promoted the establishment of an academy for natural science. He died at Lintz, in 1680. His memoirs, written in Italian, are distin-. guished for conciseness, clearness, and profound and scientific views.

Monte Flascone; a papal town in the Patrimonio, 5 miles south of Bolsena, 10 north-west of Viterbo; lon, 11° 56' E.; lat. 42° 33' N.; population 3000; see of a bishop. This is by some said to be the ancient Falerium, or Falerii, capital of the Falisci. It is now remarkable only for its situation, and for the hills surrounding it, which produce great quantities of excel-

lent wine, particularly Muscadel.

Montem; a singular celebration which

takes place every three years at Eton school, England. (See Eton.) MONTEMAYOR, Jorge de a celebrated poet, born about 1520, in the small town of Montemayor, or Montemor, not far from Coimbra, in Portugal. He was much less indebted to study than to his natural genius, but he understood reveral living languages, and his translations from them are characterized by case and faithfulness. In his youth, he entered the military career, although his inclination attracted him to music and poetry. He afterwards went to Castile, and, being des-¹titute of other means of subsistence, joined the chapel of Philip II as a singer, and accompanied that prince to Germany, Italy and the Low Countries. After his return, he appears to have lived in Leon, where he wrote his celebrated Diana, which constitutes him the founder of the Spanish pastoral romance. Queen Catharine, sister of Charles V, and regent of the kingdom, called the poet to her court, and conferred on him an honorable post. By an elegy of Francisco Marcos Dorantes, which is contained in all the editions of the Diana, it appears that he died as early as 1562. Although a Portuguese by birth, he is considered as belonging to Spanish literature, as he wrote in Castilian. Cervantes calls the Diana the finest model of the pastoral romance. Besides that work, which is unfinished, we have a Cancionero, or collection of his poems.

Montenegains; the inhabitants of Montenegro, a country in the western part of Turkey in Europe, in the province of Albania, between lut. 42° 8' and 43° 5'. N., and lon. 18° 38' and 19° 35' E. In the language of the natives, the country is called Tschernagora, and received the name of Montenegro (Black Mountain), from the dark color of the forests which cover its mountains. The inhabitants are Sclavoniaus, and are described as bold, warlike and hospitable, but inclined to robbery. They are estimated at about 60,000, of whom 15,000 are capable of The superficial area of the bearing arms. country is 1000 square miles. This district was never reduced by the Turks, and, in 1797, the inhabitants threw off all dependence on Turkey, and formed an independent state, under the protection of Russia. Their ruler is called wladika, and is the spiritual and temporal head of af-Their language is Hlyrico-Sclavonian, 'They belong to the Greek church, but have their own patriarch. The principal town is Atigne. In 1767, an adventurer by the name of Stellano Piccolo, made his appearance among them, who gave himself out for the Russian emperor Peter III, and excited an insurrection, which was not pacified without much bloodshed.—See Sommières, Voyage Historique et Politique de Montenegro (2 vols., 1820).

Monte Norte: a mountain in Italy, on the borders of the state of Genoa and the duchy of Monferrat, 7 miles north of Savona, 12 south of Acqui. On the 11th of April, 1796, the Austrians, commanded by general Beaulieu, were defeated by the French under Bonaparte; the imperialists lost 2000 men killed, and as many prison-

Monre Nuovo; a mountain in Naples, thrown up by an earthquake, in the 16th century, in the valley of Averno. hours it attained the height of 2100 feet, Some part of it is cultivated. Near the foot of the mountain the sand is very hot from subterraneous fire.

MONTEREAU. (See Chatillon.)

MONTE SANTO. (See Alhos.)

MONTEREY, a scaport or hay in New
California, Lon. 121° 51' W. Lat. 36° 36' N. The lay is spacious, and is situated lectures on history, sought to attract attoubetween Point Pinos, and Point Anno tion to the natural-sciences, in his time Nuovo. ject to thick fogs.

Françoise-Athénais de Montespan, Rochechouart de Mortemart, marchioness de, mistress of Louis XIV, born in 1641, was the second daughter of the duke of AOT' IX'

Mortemart, and, in 1663, was married to the marquis de Montespan. To the most. fascinating beauty she added a natural liveliness and wit, and a highly enlivated . mind. Her conversation was gay, natural and piquante. On her first appearance at court, as the queen's dame du palais, Mile. do la Vallière possessed the favor of the monarch; but the grace, beauty and wit of the lovely marchioness soon made an impression on him (1668), and it was not long concealed from the courtiers-although the pious queen was slow to credit it—that, while that voluptuous prince already had one mistress at court, he was living in double adultery with another. Her husband had been ordered to retire to his estates, and Mme, de la Vallière withdrew in 1674. The first child of this adulterous connexion was born in 1672, and the birth was carefully concealed. The education of the children was committed to Mme. Scarron, afterwards De Maintenan, under the strictest injunctions of secreey; but this exterior of decency was soon laid aside, and they were openly avowed. The influence of the favorite mistress was often exercised in public affairs, and her advice was often formally asked and followed. Several transient passions of the king still left her her power, until age and long possession, remorse, and a growing attachment to Mme. de Maintenon(q. v.), finally overcame his passion, and the frequent guarrels of the two ladies finally estranged his affections from Mme. de Montespan. She rarely appeared at court after 1685, and, in 1691, she entirely quitted it. Her last years were devoted to religious exercises, acts of benevolence and penitence. She died in 1707.

Montesquieu (Charles de Secondat, baron de la Brède et de,) was descended from a noble family of Guigune, and was born Jan. 18, 1689, at the castle of Brede, near Bordeaux. When only twenty years. old, this philosophical genius collected materials for his Esprit des Lois. An uncle, who was president of the parliament of Bordeaux, left him his property and office. In this sphere of action, Montesquieu tried to be useful in various ways. In the academy which was formed at Bordeaux, he delivered many excellent The climate is healthy, but sub- almost entirely neglected, and, for that purpose, projected the plan of a Histoire physique de la Terre ancienne et moderne, (which, however, as his efforts were after-wards turned in other directions, was never finished), &c. Is 1721, he came

before the public with his Lettres Persancs, which he had begun in the country, and finished in the leisure hours that his business left him. This work, profound under the appearance of levity, announced a distinguished writer. It gives a most lively and correct picture of French manners: with a light and bold pencil, he portrays absurdities, prejudices and vices, and has the skill of imparting to all an original character. All his letters are, however, not of equal value: some contain paradoxes and coarse satires against the reign of Louis XIV. These letters introduced Montesquieu into the French academy, although this society was by no means spared in them; and cardinal Fleury, justly , offended at the Persian's mockery of the Christian religion, opposed his reception. The discourse which he delivered on the occasion of his admission, in 1728, was short, but energetic, and rich in ideas. In . order to collect materials for his great work, the Esprit des Lois, he resigned his office in Bordeaux, in 1726, and, after his reception into the academy, began to travel through Germany, Hungary, Italy, Switzerland, Holland and England. In the last country, he spent about two years, and was made member of the royal society of sciences in London. The result of his observation was, that Germany was the place to travel in, Italy * reside in for a time, England to think in, and France to live in.* After his return to his chateau la Brède, he finished his work Sur les Causes de la Grandeur et de le Décadence 'des Romains, which first appeared in 17:34. His acute remarks and excellent delineations gave to this trite subject the interest of novelty. The lofty spirit · which shines in this book is still more conspicuous in the Esprit des Lois, which appeared in 1748. In this work, which exhibits the laws of states, in their broad connexion with their other elements of public life, the author distinguishes three forms of government,—the democratic, the · monarchical, and the despotic, and shows that the laws must correspond to the principles of these forms. The distinction is of great importance, and leads the austyle, without always being correct, is en-, ercetic. This work may be termed a code of national law, and its author may be vols., and of Paris, 1796, in 5 vols.

"He was often accustomed to say, jocosely, of his own conduct in his travels, "hir France, I was the friend of every body; in England, of nobody; in Italy, I had to compliment every one, and in Germany, drink every where."

we feel that it emanates from a liberal. heart, regarding the whole human race with affection. In consideration of these sentiments, Montesquieu may be forgiven for laboring to reduce every thing to a system; ascribing to climate and physical causes too much influence over the morals; for the irregularity of his work as a whole, and for having too often drawn general inferences from single cases. But it has been justly complained that we find in this chef d'œuvre many excessively long-ligressions respecting the feudal laws; also the testimony of travellers of doubtful credit; paradoxes instead of truths, and jests instead of reflections. He has therefore been accused of indefiniteness, forced expressions, and want of connection. is, however, undeniable, that this book is for the philosopher a storehouse of investigations; and no one has ever reflected more profoundly than Montesquieu on the nature, foundation, manners, climate, extent, power, and peculiar character of states; on the effects of rewards and punishments; on religion, education and commerce. To a criticism by the abbe Bonnaire, Montesquieu replied in his Défense de L'Esprit des Lois. He died at Paris, Feb. 10, 1755, at the age of sixty-six years. Authough economical by nature, he could be generous, as in the well-known instance of his bounty at Marseilles, where he gave his purse to a young boatman, and secretly appropriated a considerable sum to release the father of the unhappy man, who had fallen into the hands of Barbary corsair. It was not discovered till after Montesquieu's death that he was the liberator of the captive. A note respecting the remittance of a sum of money to a banker, found by his executors among his papers, led to the discovery . of this act of liberality. It has given occasion to the drama Le Bienfait anonyme. His mildness, good humor, and courteousness, were always equal; his conversation easy, instructive and entertaining. After his deuth, a collection of his works was published at London, in 1759 (3 vols., 4to.). In 1788, there appeared a good edition (in 5 vols.), to which must be addthor to a great variety of deductions. The .ed a volume of Eurres Postlaimes, that appeared in 1798. The most complete editions are those of Basic, of 1799, in 8 vols. and of Paris, 1796, in 5 vols. They termed the legislator of the human family: contain several other works of Montesquieu, such as the Temple de Gnide, a kind of poem in prose. A history of I buis XI, which he had composed, was lost, being burned by the author by mistake. Under the hame of Charles d'Outre-

pont, Montesquieu has unveiled the soul of a tyrant, in a conversation between Sulla and Encrates. Of his Lettres familières, which appeared in 1767, several are interesting. In his twenty-sixth year, Montesquieu married, and the fruits of this . marriage were one son and two daughters. The first published a romance, in 1783, Arsace and Ismene, which was probably written by Montesquicu, in his younger years, and, perhaps, intended originally, as Granm suggests, to form an episode in the Lettres Persones. To his grandson, the baron Montesquieu, who died without children, at London, July 27, 1824, Napoleon, from respect to the author of the Esprit des Lois, restored the property of his grandfather, which had been confiscated during the revolution.

MONTE VIDEO, OF CISPLATINO; a re-public of South America, between Brazil on the east and north, Paraguay on the north-west, and Buenos Ayres on the west, washed by the Uruguay, the Rio de la Plata, and the Atlantic. It was declared an independent republic, by a treaty between Buenos Ayres and Brazil, in

1828. (See Banda Oriental.)

. Monte Video, or S. Felipe; capital of the republic of Monte Video, on the northern bank of the Rio de la Plata, near its mouth; lat. 34° 54′ S.; lon. 56° 14′ W.; 120 miles north-east of Buenos Ayres. Mear the port rises the mountain from which it derives its mame, and on which there is a light-house. The city is built on a gentle ascent, and is fortified; the streets are wide, straight, and well-paved; the houses generally of one story, with that roofs. The principal building is the cathedral. The climate is moist; storms are frequent in summer, and the cold is severe in the winter months, June, July and August. The port is the best on the Plata. The exports are tallow, hides, and salt beef; ing struck on the temple with a stone, he imports, manufactured goods, coffee, sugar, &c.; population 10,000. Monte Videe was built by a Spanish colony from Buenos Ayres, and was a long time an object of ambition to Portugal. When the former shook off the Spanish yoke, the Brazilian court seized the opportunity of taking possession of it. It was recovercd, after a long siege, in 1814, and retaken by the Brazilians in 1821. By the treaty of 1828 it became the capital of a republic of the same name. (See Banda Oriental.)

MONTEZUMA; emperor of Mexico, at the time of the Spanish invasion. In .

visiting the converor in his capital Montezuma sent him a rich present, but forbade his further advance. Cortes, however, heeded not this prohibition, and the emperor, intimidated, began vainly to negotiate for the departure of the Spaniards. His despotic government having made him many enemies, who willingly joined Cortes, and assisted him in his progress to Mexico, he was obliged to consent to the advance of the Spaniards, to whom he assigned quarters in the town of Cholula, where he plotted their destruction. His plot being discovered, a massacre of the Cholulans followed, and Cortes proceeded to the gates of the capital, before Montezuma was determined how to receive him. His timidity prevailed, and, meeting the Spanish leader in great state, he conducted him with much respect to the quarters allotted to him. The mask was, however, soon removed: Cortes seized Montezuma in the heart of his capital, and kept him as a hostage at the Spanish quarters. (See Corles.) He was at first treated with respect, which was soon changed into insult, and fetters were put on his legs. He was at length obliged to acknowledge his vassalage to the king of Spain, but he could not be brought to change his religion. ¶Io was constantly planning how to deliver himself and his countrymen; and when Cortes, with great part of his forces, was obliged to march out to oppose Narvacz, the Mexicans rose up and furiously attacked the Spaniards who remained. The return of their commander alone saved the latter from destruction, and hostilities were going forward, when Montezuma, still the prisoner of the Spaniards, was induced to advance to the buttlements of the Spanish fortress, in his royal robes, and attempt to pacify his subjects. His address only excited indignation, and, befell to the ground. Every attention was paid to him by Cortes, from motives of policy; but, rejecting all nourishment, he tore off his bandages, and soon after expired, spurning every attempt at conversion. This event took place in the summer of 1520. He left two sons and three daughters, who were converted to the Catholic faith.—Charles V gave a grant of lands, and the title of count of Montezuma, to one of the sons, who was the founder of a noble family in Spain. (See

Robertson's History of Ibnerica.)
MONTFAUCON, Bernard de, a French
Benedictine, of the congregation of St. 1519, when Cortez arrived on the coast of Maur, celebrated as a critic and antiquary, Mexico, and expressed his intention of was of noble descent and was born at the

castle of Soulage, in Languedoc, in 1655. When young, he engaged in military service, which he quitted, and, in 1675, took the monastic vows. In 1688, he published, conjointly with fathers Lopin and Ponget, a volume entitled Inglecta Graca, sive varia Opuscula. One of his great undertakings was an edition of the works of Athanasius, which appeared in 1698 (in 3 vols., tolio). He then visited Rome, where he exercised the functions of agentgeneral of the congregation; and, on his return from Rome, published an account of his observations, under the title of Diarium Italicum; and, in 1706, a collection of the works of the ancient Greek fathers, with a Latin translation, notes In.º 1708 appeared his and remarks. Pala ographia Graca, sive de Ortu et Progressu Lillerarum Græcarum. Among his subsequent labors are the Herapia of Origen (1713, 2 vols., folio); un edition of the works of Chrysostom (13 vols., folio); and Les Monuments de la Monarchie Française. His works in folio alone form 44 volumes. The most important of his productions is the treasure of classical archaeology, entitled L'Antiquité expliquée et representée en Figures, with the supplement, 15 volumes, tolio, containing 1200 plates. His death took place at the abbey of St. Germaindes-Prés, 1741. English translations have been published of the Diarium Halicum and Intiquité expliquée.

MONTFERRAT (Monteferrato); formerly a duchy of Italy, bounded by Picamont, Genon and the Milanese; the capital was Casale. It now belongs to the Sardinian territories. Mention is made of a marquis of Montferrat in 980. It was creeted into a duchy by Maximilian, in 1573. In 1631, a part of it was ceded to Savoy, by the rduke of Mantua, to whose ancestors Charles V had granted it in 1536. In 1703, the remainder was annexed to the 'ing to some, this was the motive which same duchy, by the emperor. Since that period, it has shared the fate of Savoy. ,

(See Savoy.)

MONTFORT, Simon de, éarl of Leicester, son of Simon de Montfort, who distinguished himself by his activity, zeal and severity in the crusade against the Albigenses, was born in France, and; in 1231. refired to England, on account of some dispute with queen Blanche. Henry III feccived him very kindly, bestowed upon him the earldom of Leicester, which had. His body, after being mutilated in the formerly belonged to his ancestors, and most barbarous and indecent manner, was gave him his sister, the countess downger of Pembroke, in marriage. Henry soon after appointed him seneschal of Gascony,

inhabitants sent a deputation to the king, declaring that they would renounce their allegiance if Montfort was not removed. He was accordingly recalled, and, according to some accounts, examined before the lords, but acquitted. A violent personal altercation between the king and the haughty earl ensued, in which the former applied the opprobrious epithet of traitor to his subject, and the latter gave his sovereign the lie. A reconciliation was, however, effected, and De Montfort was employed on several occasions, in a diplomatic and military capacity. As the dissatisfaction of the barons with the government assumed a more decided tone, the name of this nobleman is more frequently mentioned. He concerted, with the principal barons, a plan of reform, and, in 1258, they appeared in parliament armed, and demanded that the administrafion should be put in the hands of 24 barous, who were empowered to redress grievances, and to reform the state. These concessions were called the provisions of Oxford, the parliament having been holden at that place. The administration of the 24 guardians, at the head of whom was Leicester, continued for several years. In 1262, Henry made an ditempt to escape from their authority, but was constrained to submit, by the vigor and activity of Leicester, and agreed that their power should be continued during the reign of his successor. This stipulation soon led to new troubles, and both parties finally consented to refer the subject to the arbitration of St. Louis. barons refused to abide by his decision, and hostilities again commenced, which resulted in the triumph of Leicester, at the battle of Lewes. His arrogance and rapacity seem to have raised a powerful party against him among the barons, and, accordinduced him to summon knights of shires . and burgesses to the parliament which convened in 1265. Whatever may have been his motives, however, he thus became the founder of the English house of commons. In the same year he fell, at the battle of Evesham, in which the royal forces were led by prince Edward. (See Edward I.) In attempting to rally his troops, by rushing into the midst of the enemy, he was surrounded and slain. laid before lady Morûmer, the wife of his inplacable enemy. His memory long revered by the people, as that of one where he ruled so despotically that the who died a martyr to the liberties of the

realm. During the succeeding reign, this feeling was discouraged, but, in the next generation, he was called St. Simon the Rightions. Miracles were ascribed to · him, and the people murmured that canonization was withheld from him. Though Simon de Montfort was slain, his lifeless remains outraged, and his acts branded as those of a usurper, yet, in spite of author- province. ity and prejudice, his bold and fortunate innovation survived. He disclosed to the world (whether conscious or not of the importance of his measure), the great principle of popular representation, which has drawn forth liberty from the walls of single cities, has removed all barriers to the extent of popular governments, and has given them a regularity, order and vigor which put to shaine the boasted energy of despotism.

MONTGOLFIER, Jacques Etienne, the inventor of the balloon, the son of a paper-maker, was born at Vidalon-les-Annonai, in 1745, and, with his older brother, Joseph Michael (born 1740, died 1810), devoted himself to the study of mathematics, mechanics, physics and chemistry. They carried on the manufactory of their father together, and were the first who made vellum paper. Joseph was also the inventor of the water-ram, which raises water to the height of 60 feet. His broth-

er died in 1799. (See Aronautics.) Момчомках, Gabriel, count. de; а French kuight, celebrated for his valor and his fate. In his youth, he was the innocent cause of the death of Henry II. That prince had already broken several lunes, at a tournament held in 1559, in honor of the marriage of his daughter Llizabeth with Philip, king of Spain, when he desired to run a tilt with the young Montgomery, then a lieutenant in the The latter consented Scotch guards. with great reluctance, but finally yielded, when he saw that Henry was displeased with his refusal. In the encounter, his lance struck with such violence on the visor of the king, as to raise it, and pass through his head, just above the right eye. The prince died II days after, commanding that Montgomery should not be proceeded against on account of the accident. The latter retired to his estate in Normandy, which he left, for a time, to travel, and returned to France at the time of the first civil war, in which he acted as · a leader of the Protestants. He defended Rouen, with great bravery, against the royal army, in 1562, and, on the capture of the city, made his escape to Havre. Onthe night of St. Bartholomew's, he was at brought into Quebec, and buried without 2* .

Paris, but succeeded in saving himself by flight, and went to England. In 1573, he brought a powerful fleet, partly fitted out at his own expense, to the relief of Rochelle, which was besieged by the Catholies; but did not effect any thing, and, returning to Normandy, connected himself with the Protestant noblesse of that After several battles, he was obliged to throw himself into the castle of Domfront, where, in spite of a vigorous resistance, he was at length overpowered (May 27, 1574), and made prisoner, by the royalist general Matignon. By the com-mand of Catharine of Medici, Matignon transferred his captive to Paris, where he was beheaded, June 26 of the same year, displaying the most heroic courage on the scaffold.

Montgomery, Richard, a major-general in the army of the U. States, was born in 1737, in the north of Ireland. He embraced the profession of arms, and served under Wolfe, at Quebec, in 1759; but, on his return to England, he left his regiment, although his prospects of promotion were fair. He then removed to . America, for which country he enter-tained a deep affection, purchased an estate in New York, about 100 miles from the city, and matried a daughter of judge Livingston. His feelings in favor of America were so well known that, on the commercement of the revolutionary struggle, he was intrusted with the command of the continental forces in the northern department, in conjunction with general Schuyler. The latter, however, fell sick, and the chief command, in consequence, dévolved upon Montgomery, who, after various successes (the reduction of Fort Chamblee, the capture of St. John's, and of Montreal), proceeded to the siege of Quebec. This he commenced Dec. 1, 1775, after having formed a junction with colonel Arnold, at Point-aux-Trembles; but, as his artillery was not of sufficient calibre to make the requisite impression, he determined upon attempting the capture of the place by storm. He made all his arrangements, and advanced, at the head of the New York troops, along the St. Lawrence. He assisted, with his own hands, in pulling up the pickets, that obstructed his approach to the second barrier, which he was resolved to force, when the only gun fired from the battery of the enemy killed him and his two aid-decamps. The three fell at the same time, . and rolled upon the ice formed upon the river. The next day his body was:

in front of St. Paul's church, in New York, and, July 8, 1818, his remains were brought from Quebec, in consequence of a resolve of the state of New York, and interred near the monument. General Montgomery was gifted with fine abilities, and had received an excellent education. : flis military talents, especially, were great; his measures were taken with judgment, and executed with vigor. The sorrow for his loss was heightened by the esteem which his amiable character had gained him. At the period of his death, he was

only 38 years of age.

MONTHOMERY, James, a living English poet, born at Irvine, in Ayrshire, in 1771, is the eldest son of a Montyian minister, and was educated at the Moravian semi- nary at Fulneck, near Leeds, in Yorkshire. After this period, he never saw his parents. They were sent to the West Indies, to preach to the Negroes, and fell the victims of disease. Moutgomery continued ten years at Fulheck, during which he acquired Greek, Latin, French and German. To poetry he was early devoted, for he began to write verses when he was only 10 years old, had filled three volumes by the time that he was 12, and, before he was 14, had composed a mock heroic poem, of more than a thousand lines. In his 15th year, he projected an epic poem on the wars of Alired. His tutors endeavored, in vain, to wean him from that love of the muse which they believed to be incompatible with his intended calling of a minister of the gospel; and, at length, they consented that he should turn his attention to lay pursuits. He was placed with a person who kept a shop at Mirfield, but this situation he soon quitted for another of the same kind; and, finally, with a volume of his poems, he travelled to London, and, for some time, was in the shop of a Mr. Harrison, in that city. In 1792, Montgomery settled at Sheffield, and engaged with Mr. Gales, the publisher · of the Sheffield Register. Mr. Gales, being threatened with a prosecution, was obliged to leave England, in 1794, and, by the assistance of a friend, Montgomery was enabled to become the proprietor of: the paper, the name of which he changed to that of the Iris. Two prosecutions were successively instituted against him; on the first of which he was sentenced to 'a fine of £20 and to three months' im-. prisonment, and, on the second, to a fine , of £30 and an incarceration of six months.

any mark of distinction. Congress di- Doring his confinement, he wrote a volrected a monument, with an inscription, 'ume of poems, which he published in to be erected to his memory, and placed 1797, under the title of Prison Amusements. In the following year, he gave to the press a volume of essays, called the His Battle of Alexandria. Whisteer. and other poems, in the first volume of the Poetical Register, were extensively admired. Encouraged by the applause which was bestowed on his contributions, he ventured, in 1806, to give to the world the Wanderer of Switzerland, and other Poems, and, in spite of a severe criticism in the Edinburgh Review, they rose into popularity, and established his reputation. His subsequent works are, the West Indies, a Poem, and other Poems (1810); the World before the Flood, (1813); Verses to the Memory of Richard Reynolds, (1816); Thoughts on Wheels, a Poem (1817); Greenland, and other Poems (1819); Polyhymnia, Songs to Foreign Music (1821); Songs of Zion, (1822); Pelican Island (1827); Voyages of Tyerman and Bennet (missionary agents) in the South Seas, China, &c. (1831). He is not to be confounded with Robert Montgomery, auther of several poems-Omnipresence of the Deity (1828); Universal Prayer; Death; a Vision of Hell; a Vision of Heaven (1829); Satan (1830); which have passed through several editions, and had an extensive circulation in England.

> MONTH; the 12th part of the year, and so called from the moon, by whose motions it was regulated, being properly the time in which the moon runs through the zodiac. (For the civil division of months, see the articles Calendar, and Epach.) The lunar month is either illuminative, periodical, or synodical. Illuminative month is the interval between the first appearance of one new moon and that of the next following. As the moon appears sometimes sooner after one change than after another, the quantity of the illuminative month is not always the same. The Turks and Arabs reckon by this month. Lunar periodical, month is the time in which the moon runs through the zodiac, or returns to the same point again, the quantity of which is 27 days, 7 hours, 43 minutes, 8 seconds. Lunar synodical month, called also a lunation, is the time, between two conjunctions of the moon with the sun, or between two new moons, the quantity of which is 29 days, 12 hours, 44 minutes, 3 seconds, 11". The ancient Romans used lunar months, and made them alternately of 29 and 30 days. They marked the days of each month by three terms, viz., calends, nones, and ides.

Solar month is the time in which the sun runs through one entire sign of the ecliptic, the mean quantity of which is 30 days, 10 loars, 29 minutes, 5 seconds, being the 12th bart of 365 days, 5 hours, 49 minutes, the mean solar year. Astronomical, or natural month, is that measured by some Astronomical, or exact interval, corresponding to the motion of the sun or moon; such are the lunar and solar months above mentioned. Civil, or common month, is an interval of a certain number of whole days, approaching nearly to the quantity of some astro-nomical month. These may be either nomical month. These may be mould as solar. The civil lunar month lunar or solar. consists alternately of 29 and 30 days. Thus will two civil months be equal to two astronomical ones, abating for the odd minutes; and so the new moon will be kept to the first day of such civil months, for a long time together. This. was the month in civil or common use among the Jews, Greeks and Romans, till the time of Julius Casar. The civil solar month consisted alternately of 30 and 31 days, excepting one month of the 12, which consisted only of 29 days, but every fourth year of 30 days. The form of civil months was introduced by Julius Clesar. Under Augustus, the sixth month (till then, from its place, called Sextilis) received the name Augustus (now August), in honor of that prince; and, to make the compliment still greater, a day was added to it, which made it consist of 31 days, though, till then, it had only contained 30 days; to compensate for which a day was token from February, making it consist of 20 days, and 29 every fourth year. Such are the civil or calendar months now used through Europe.—Month, in English statutes is a lunar month, of 28 days, unless otherwise expressed.

Montholon, Charles Tristan, count de, justly celebrated for his generous adherence to the fallen fortunes of his illustriouts master, was born at Paris, in 1783. His father was colonel of a regiment of dragoous, and young Montholon entered the army at the age of 15. He commenced his career by serving under Bonaparte, on the celebrated day of the 18th of Brumaire, and was in the list of the officers who received swords, as marks of distinction, from the first consul, on that occasion. Appointed aid-de-camp to mar-Ishal Berthier, before he had attained the age of 21, he served in that capacity, in every campaign subsequent to that period, and distinguished himself, particularly at the battles of Austerlitz, Wagram, Jena and Friedland. During a time when the

state of his health, and the effects of his wounds, did not permit him to undergo the fatigues of actual military service, Napoleon employed him in various important missions, and attached him to his own person, as one of his chamberlains. He was afterwards appointed to the cointhand of the department of the Loire, and was proceeding to oppose a vigorous resistance to the Austrians, when he received the news of the emperor's abdication. His first thought was to resign his command, and hasten to his muster at Versailles. From this hour, his fate and that of Napoleon became inseparable. He held the rank of general during the hundred days. He served Napoleon as chainberlain, after the battle of Waterloo, both at the palace Elysée and at Mahnaison; and, finally, with his wife and children. voluntarily partook of the ex-emperor's imprisonment at St. Helena, and continued with him fill the period of his decease. He was executor of the emperor, and has since returned to Paris, where, in connexion with Gourgaud, he edited the MSS. of Napolcon.

Monti Vincenzo, one of the most celchrated modern poets of Italy, born at Fusignano, in the territory of Ferrara, about 1753, studied at Ferrara, after which he went to Rome, where he found patrons, and was appointed secretary of Luigi Braschi, nephew of the pope. he wore the clerical dress, he was called abbate Monti. The Arcadia received him as a member. Excited by the fame of Alfieri, he wrote two tragedies-Galcotto Manfredo, and Aristodemo-the splendid style of which was indeed admired, but the plots were thought too tragic, and drumatic action was wanting. The murder of the French ambassador Basseville, at Rome, gave occasion to the poem Basvilliana, in which he closely imitates Dante. This work, distinguished for the splendor of some of its passages, gained him a well-deserved reputation. Two other poems, the Musogonia and Fermiade, are less known in their original form, for, the French having soon after entered Rome, the author suppressed the first edition, and prepared a second, in which the reproaches formerly directed against Bounparts and his army were levelled against the allied princes. Monti was now appointed secretary of the directory of the Cisalpine republic in Milan. He was accused, indeed, of having acted, on a mission to Romagna, the part of a new Verres; but his verses, in which he artfully flattered the existing powers, kept him in office. The campaign of

Suwaroff in Italy, in 1799, obliged him to flee to France. The battle of Marengo restored him to Milan, where he sung the Death of Mascheroni. This poem excited almost as much admiration as the Basvilliana, but, as some satirical hits gave offence, he did not tinish it. He was scarcely appointed professor of belles-lettres at the college of Brera when he received an invitation to Pavia, as professor of cloquence; but Napoleon appointed him historiographer of the kingdom of Italy, with the charge of celebrating his achievements. Accordingly the poet composed' his Bardo della Selva nera, of which six cantos appeared in 1806. This very singular work met with strong disapprobation, against which Monti attempted a vindication, in a letter to Bettinelli. He then went to Naples to join Joseph Bonaparte, where he published the seventh canto of the Bardo, which was received with no more approbation. His tragedy Cajo more approbation. Gracco likewise found little fayor, as also some musical dramas. The poetry was considered as too close an imitation of Dante, though not without many beauties. Mouti now translated the Satires of Juvemd, and (without, as be confessed himself, understanding Greek) the Hiad of Homer. In 1815, he composed for the city of Milan a cantata in hortor of the emperor He died in October, 1828. Francis. Monti cannot be denied the praise of great poetic talent; his countrymen called him il Dante engentilità. Wis Proposta di alcune Correzioni ett Aggiunte al Vocabolario della Crusca contains a treasure of critical and lexicographical information on the Italian language. A complete edition of his works, with a notice of his life, has been announced by his daughter.

MONTICELLO; a conical hill, on which is the house formerly the residence of Thomas Jefferson, the third, president of the U. States. It is situeted in Albemarle county, Virginia, two miles southeast of Charlottesville; lon. 782 487 W.; lat. 389 87 N. The summit on which the house stands is 580 feet above Riyanna river, which flows at its bose, and affords an extensive and beautiful prespect. The house has lately been sold.

Montioner, François Dominique Regnault, count de, is descended of amancient family of the province of Auvergne, in which province he was born about 1760. In 1789, he was chosen deputy to the states-general, by the nobility of rRiom. It was not, however, till after the events of the 5th and 6th of October, in that year, that he began to take a conspicuous.

part in that assembly. From that period. he came forward, on every occasion, as one of the most determined of the royalist party, and sometimes carried his zeal to a length which was prejudicial to the cause that he espoused. He did infinite mischief to the monarch, by his opposition to Mirabeau, at a moment when that orator was desirous of giving his powerful support to the tottering throne. In 1791, he was guilty of a great want of foresight, in voting for the self-denying decree, which ordered that the members of the national assembly should not be elected to the ensuing legislative body. By this absurd . decree, all political influence was thrown into the hands of those who were hostile to the monarchy. M. Montlosier emigrated, and, after having been employed on the continent till 1794, he settled in England, where he became the proprietor and editor of the Courrier de Londres, Which he conducted on the same principles that he had manifested in the national assembly. In 1800, he was selected to proceed to Paris, for the purpose of proposing to Bonaparte a sovereignty in Italy, on condition of his restoring the Beurbons to the throne of France. He was arrested at Calais, and conveyed to the Temple, where, however, he was confined only 36 hours, Fouché having declared that the arrest arose from a mistake : but he was, at the same time, ordered to quit France in ten days. During those ten days, he had secret audiences of the minister for the foreign department, who informed him, ostensibly in confidence, that it was the design of the first consul to reëstablish the ancient church of France, . to recall the emigrants, and restore the unsold property, and to destroy the remnants of Jacobinism, and bring back social On his return to England, Montlosier began to change the tone of his. journal; and the British government, in consequence, withdrew its protection from In 1801, the ministers of the police and foreign department invited him back. to his country, and he accepted the invitetion. He settled at Paris, and continued his journal there, but dropped it at the end of three months, and was placed in the office of the foreign department. Though he did not give his vote on the subject of raising Napoleon to the imperial dignity, yet he remined his place. The emperor, soon after, ordered him to write a work on the ancient monarchy, and the causes of the revolution—a task on which Montlosier was occupied for four years; and he next employed him, for 15 months,

as his regular correspondent on political affairs. About the close of 1812, Montlosier requested permission to travel in Italy, for the purpose of making inquiries in natural history—a pursuit which he had formerly preferred to all others. His request was granted, and he was liberally supplied with the means of travelling in comfort. After the first restoration, he published his work On the French Monarchy, from its Establishment to the present Veriod (3 vols., 8vo.), to which he subsequently added several supplementary volumes, bringing it down to the year 1821. He refused to vote for the additional act, proposed by Napoleon; but he was, nevertheless, removed from office on the second return of the Bourbons. For fendal institutions Montlosier has a violent and absurd predilection, somewhat remarkable in a man of the nineteenth century. His Mémoire sur un Système. religieux et politique, tendant à renverser la Religion, la Société et le Trône (1826), directed against the Jesuits and ultra-mountainists, excited much attention.

Montmartre ; a village and height near Paris, rendered celebrated in recent history by the military events of which it was the theatre during the two occupations of the French capital by the allied forces. According to some, it derives its name (Mons Martis) from a temple of Mars which formerly stood on its summit; it was, afterwards called Mons Mercurii (probably because the temple was converted to his service); and, at a later peric?, in consequence of the death of St, Denis and his disciples here, it acquired the name of Mons Martyrum; and a chapel took the place of the heathen temple. In the war with Lothaire (978), the chronicles relate that Otho II, emperor of Germany, caused a hallelujah to be chanted by the monks from the heights of Montmartre, with such a power of lungs as to territy all Paris. In 1096, Bouchard de Montmorency, to whom it belonged, founded a convent of monks here, which, in 11:3, was converted into a numery by queen Adélaïde (wife of Louis le Gros). This abbey afterwards became noted for the dissolute manners of its immates. Henry IV, during the siege of Paris, fixed his head-quarters here. When the allies en-tered France, in 1814, Napoleon caused. the neights to be fortified; and about 15,000 men defended it a whole day against 40,000 of the allied troops. Montmartre was again fortified in 1815, but was not attacked. It affords a good view of the capital, and is occupied by country-

seats and soveral charitable institutions and manufactories. Large quantities of plaster of Paris are obtained from its quarries. . Mostmiralle, Battle of, in 1814. (See Chatillon.)

MONTMORENCY, or Enguren; a village about nine miles from Paris, situated on a rising ground, which overlooks the celeptated valley of Montmorency, on the borders of the forest of the same name. In this beautiful valley is the hormitage where Rousseau wrote his Emile, and his Nouvelle Heloise, and which was afterwards occupied by Grery. The garden attached to it contains a bust of the former, and a marble monument to the memory of the latter. Montmorency is now a watering-place, containing sulphurcous springs, which supply 400 baths a day. The vicinity affords agreeable walks.

MONTMOBENCY, Anne de, peer, mar-shal, and constable of France, born in 1493, one of the greatest generals of the 16th century, distinguished himself under Francis I in the wars against Charles V, and followed his sovereign to Italy, where he was made prisoner with him at the battle of Pavia (1525), which was fought against his advice. Francis conferred on him the dignity of constable in 1538, on account of his important public services. He afterwards, however, lost the favor of the king, on account of his having advised him to trust to the professions of Charles, who, while in France, promised the restoration of Milan. In the reign of Henry II, Montmorency recovered his former influence, but, owing to the hatred of Catharine of Medici, lost his sonsideration in the reign of Francis II. The risings of the Huguenots occasioned his recall to the court of Charles 1X, and he joined the duke of Guise in opposition to Condé, who was at the head of the Prot-The consequence was a civil estants. war, which broke out in 1562. In the battle of Dreux, Montmorency was made prisoner by the Huguenots, and Condé was captured by the royal troops. The former was liberated the next year, and in the second civil war gained a decisive victory over the Huguenots, November 10, 1567, but died of the wounds received in the action, at the age of 74 years.

Monthorner, Henry II, duke de, born 1595, was in his 18th year created admiral of France. After having defeated the Culvinists in Languedoc, and taken from them several strong places, he gained a victory over them by sea, near the island of Ré, which fell into his hands. In 1628, he gained decisive advantages

Haguenots. During the war against Man- . tua, in 1630, he held the chief command in Piedmont, and defeated the Spaniards under Doria, although they were superior to him in number. This victory was folto him in number. lowed by the relief of Casale, and his services were rewarded with the marshal's buton. Montmorency now thought himself powerful enough to brave the influence of Richelien, and, with Gaston, duke of Orleans, who was equally dissatisfied with the cardinal, raised the standard of rebellion in Languedoc. La Force and 'Schomberg were sent against them; they met at Castelnaudary, and Montmorency, who, to inspirit his men, had thrown himself into the royal ranks, was wounded and made prisoner. Gaston remained inactive. All France, mindful of his services, his virtues, and his victories, desired that the rigor of the laws might be softened in his favor ; but Richelieu was resolved to make an example of the bravest, most generous and most amiable man in France, and the marshal was condemned to death by the parliament of Thoulouse. The king extended his mercy so far as to allow the execution to be private, and it took place in the hôtel de ville, in Thoulouse, October 30, 1632.

Monthorency, Falls of; a beautiful cascade, on a river of the same name, in Lower Canada, seven miles below Quebec. The falls are very near the junction of this river with the St. Lawrence. The breadth of the river at the top of the cascade is about 100 feet, and the perpendicular descent 216 feet.

Montpelier; a post-town of Washington county, Vermont, 36 miles south-west of Burlington, and 140 north by west from Boston; lat. 44° 16' N.; lon. 72° 35' W.; from Washington city 524 miles; population in 1820, 2308; in 1830 the whole town contained 295, and the village 1193. Montpeller is the permanent seat of government for Verniont, and the shire town of the county of Washington. 'The village was incorporated in 1818; it is sitnated in the south-west part of the township, on the north bank of Onion river, and contains a commodious state-house, built of wood, a court-house, a jail, an academy, a meeting-house, and the number of school-houses, .workshops, stores, taverns and lawyers' offices usually found in New England villages of this size. The academy is flourishing. Onion river af-"fords at this place good seats for manufactories. The situation of the village is

over the duke de Rohan, leader of the by the proximity of the hills. It is about ten miles north-east from the geographical centre of the state, and is a great thoroughfare, the travel passing through it in all di-

rections. Montpellier; a city of France, capiital of Hérault; Ion. 3° 53' E.; lat. 43° 36' N.; 70 miles north-west of Marseilles, 375 miles from Paris. It is an episcopal Population, 35,850. It is situated five miles from the sea, between the small rivers Masson and Lez, on a declivity. Many of the streets are steep and irregular, and in the interior of the town they are winding, narrow and dark. In the suburbs are the most regular streets, and the best houses; the buildings are mostly It contains a cathedral, numerof stone. ous churches, hospitals, and other charita-ble institutions. The public promenade, called *Peyrou*, is one of the finest in Europe; an equestrian statue of Louis XIV was creeted in it in 1820. Montpellier has long been the seat of a celebrated university, particularly famous for its school of medicine; this still subsists, under the name of an academy, and has three faculties. The anatomical theatre is capable of containing 2000 persons. Other establishments are a botanical garden, museum, cabinet of natural history and anatomy, the observatory, and public library of 35,000 volumes and many valuable manuscripts. It is defended by a citadel, which commands the town and neighborhood. principal manufacture is verdigris, in which it carries on a considerable trade, as also in wool, which is brought from the Mediterranean ; wine, aqua vitte, Hungary water, cinnamon water, essence of bergamot, lemons, &c., and likewise great quantities of woollen carpets, fustians, and silk stockings. These commodities are sent by the canal to Cette, which is the scaport of Montpellier. This town is particularly celebrated for the salubrity of its air, and for its extensive and interesting prospects, which on the one hand embrace the Pyrences, and on the other the Alps. It is much visited by invalids from foreign

countries. Montpensier, Ann Maria Louise, of Orleans (usually known as mademoiselle de), was born at Paris in 1627. Her father, Gaston, duke of Orleans, bequeathed his eccentric, impetuous and vindictive tem! per to his daughter. She joined the fac-tion of Conde in the war of the Fronde, and had the boldness to fire upon the roops of Louis XIV from the Bastile. This outrage awakened the hostility of the low, and is rendered somewhat unpleasant king and the court against her, so that they

opposed every plan of marriage which some, and in modern style. The prinwas agreeable to her, and made only such propositions as she could not but refuse. At the age of 44, she determined to give her hand to count Lauzun. She obtained permission to take this step, and brought him a fortune of 20,000,000 france; four duchies, the seigneury of Dombes, the county of Eu, and the palace of Luxem-The contract was already conbourg. cluded when the queen and the prince of Conde persuaded Louis XIV to retract bis consent. It has been supposed, how-? ever, that the parties were secretly married; but it is not settled whether it was before or after the ten years imprisonment of Lauzun, at Pignerol, for his conduct towards Mad. Montespan, He finally obtained his freedom on condition that the duches should code the seigneury of Dombes and the county of Eu to the duke of Maine. She gladly consented to this sacrifice for the sake of living with him; but her happiness was of short duration. Lauzun saw in her a violent and ambitious woman, yet glowing with the passions of youth, and she looked upon him as ungrateful, perfidious and false. His inso-lence finally so exasperated the princess, that she forbade him ever to appear again in her presence. She lived in retirement from that time, and died in 1693, little regretted and almost forgotten. Her Memous are interesting.

MONTREAL; a city of Lower Canada, the first in size, and the second in rank, in that province. It is in a district of the sa te name, and on the south side of the island of Montreal, in the St. Lawrence, at the head of ship navigation. It is 180 nfiles above Quebec, 200 below lake Ontario, 213 from Albany, and 300 from Boston; lat. 45° 30' N.; don. 73° 22' W.; population, in 4821, 18,767; in 1830, about 25,000. The harbor, though not large, is always secure for shipping during the time that the river is not frozen; and vessels drawing fifteen feet of water can lie close to the shore. The general depth of water is from three to four and a half fathoms. The greatest inconvenience is the rapid of St. Mary, about a mile below the city: vessels cannot ascend this without a strong wind from the north-east. Montreal is divided into Upper and Lower towns, but one is very little elevated above the other. The streets are for the most part laid out in a regular manner, generally rather narrow, excepting the new ones. The houses are mostly built of grayish stone, with roofs covered with sheet-iron, he was zealous in his service of the king, or tim. Many of them are large and hand-

cipal public buildings are the general hospital, the Hotel Dieu, the convent of Notre Dame, a magnificent French cathedral, an English church, the Catholic eminary, the Protestant college, the court-house, and the government-house. Montreal is the great emporium of the for trade, which is of vast extent and importance. It is also the channel through which commerce is carried on between Canada and the U. States. A canal, nine miles long, has been completed around one of the rapids below the city, called the Lachine canal. A regular steam-boat communication is kept up, during the summer, bctween Montreal and Quebec. A great portion of the inhabitants are of French descent; and the French and English languages are about equally spoken in the transaction of ordinary business, and even in the courts of justice. There is a college at Montreal, styled university of McGill college, endowed by the late honorable James McGill, and chartered in 1821. governors are the governor in chief, the heutenant-governors of Lower and Upper Canada, the lord bishop of Quebec, the chief-justice of Upper Canada, and the chief-justice of Montreal, for the time being. It has a principal and eight professors. There is another institution, called the college of Montreal, which has a principal and four professors. The mechanic's institution, the natural history society. the library of 8000 volumes, and the advo-

cate's library, are of great utility.

MONTREAL; an island of Lower Canada, in the river St. Lawrence, at the confluence of Ottawa river, 32 miles long and 104 broad. It forms the county of Montreal, and is divided into nine parishes. In general, its surface is level, and it is extremely fertile. The largest mountain on the island is one mile distant from the city. The base is surrounded by neat country houses and gardens, and the mountain itself is covered with lofty trees. The view, from this elevation, embraces the city, the river, and a wide extent of the surrounding country.

Monrace, James Graham, marquis of, a distinguished royalist under Charles I, descended from the royal family of Scotland. He entered the Scotch guards in France. On his return, he excited the jealousy of the marquis of Hamilton, in consequence of which he met with such neglect that he joined the covenanters; but, afterwards returning to the royal side, and gained the battles of Perth, Aberdeen and Inverlochy, in recompense for which he was created a marquis. In 1645, being defeated by Lesley, he left the kingdom, and remained abroad until 1650, when he went to Orkney, with a few followers; but, being taken, he was conveyed to Edinburgh, where he was hanged and quartered, May 21, 1650.

Montaoure; a village of France, near Paris, at which is the entrance to the vast catacombs (4. v.), which extend under a part of Paris, and contain the hones of twenty generations. The remnants of the a French army, after the battle of Waterloo, were rallied on the plains of Montronge.

Montserrat; one of the Little Antilles, or Caribbee islands, belonging to England; lat. 16° 47′ N.; lon. 62° 15′ W. It is about nine miles long, and nearly as wide, and contains 30,000 acres, of which two thirds are mountainous and barren. The exports are sugar, rum, cotton and indigo; the population, 8000, of which 6500 are slaves. Plymouth is the chief place. The island was discovered by Columbus, in 1493, and colonized by the English, in 1652.

Montserrat (Monserrado); a montrain in Spain, in the province of Cardonia, 24 miles south west of Barcelona, which has its name from its numerous peaks, resembling the teeth of a saw. It is famous for its ancient Benedictine monastery, which was partly destroyed, in 1812, by the French. The monastery is composed, in part, of thirteen hermitages, which are accessible only by steps hown out of the steep rock. The youngest monks occupy steep rock. The youngest manks occupy the highest, at an elevation of 3000 or 4000 feet. They are supplied with provisions from the monastery, by mules trained for the purpose; they hear the sound of the bells, the music of the organ, and the singing of the choir, but assemble only on festival days to perform divine service in the monastic chapel. Many of these hermits liave only room for a small but; others have also a small garden Some of their dwellings appear to be suspended in the air, and can be approached only by means of ladders and bridges, over terrible precipices. The inmates gradually descend as the tenants below them die off, until they inherit a place in the monastery which contains the tombs. The mountain is full of narrow passes, many of which are fortified. The image of the virgin, pretended to have been found in a cave in the ninth century, draws many pilgrims thither.

Marrucci, Antonio, one of the most learned Chinese scholars in Europe, born at Sienna, in 1769, studied at the universi-

ty there, devoting himself to the living languages with almost incredible application. In 1785, he was made professor of English at the college Tolinei, and, in 1789, accompanied Mr. Wedgwood to England as Italian teacher in his family. Here he became acquainted with four young Chinese, obtained from them a copy of the Chinese dictionary Tching Tseu . Thoung, which was not before. known in Europe, and soon formed the plan of preparing a new dictionary of the Chinese language. To meet the expense, he laid his prospectus before several princes and academies, but the king of Prussia was the only person who made him an answer. He set out for Prussia; but the expedition of Napoleon (1806) disappointed his expectations of aid from the Prussian court. He continued, however, to labor on his dictionary, supporting himself by giving lessons in English and Italian. In 1812, he went to Dresden, where he continued to teach, and lectured on the Chinese language and literature. In 1827, he returned to Italy, and died in 1829. His dictionary and a part of his Chinese library had been previous. ly purchased by Leo XII, for the instruction of the missionaries in the Vatican. He was also the author of several compilations, &c., for the study of Italian, and edited the Possie inedite of Lorenzo de'. Medici, published at the expense of Roscoe (Liverpool, 1790).

Montucla, John Stephen an eminent French mathematician, born at Lyons, in 1725, studied in the college of the Jesnits, and completed his education at Toulouse, with a view to the legal profession. He then engaged in practice as a counsellor, but afterwards devoted himself to the cultivation of mathematical science. He published a treatise on the quadrature of the circle; and in 1758 appeared his Histoire des Mathématiques (2 vols., 4to.)a work of great research and ability. Howas appointed secretary to the intendent of Grenoble, and subsequently went to Cayenne, with the title of royal astronomer. The latter part of his life was devoted to the augmentation of his history, of which a new edition was published at Paris, in 4 vols., 4to., in 1799; reprinted in 1810. Montucla also published an enlarged edition of the Récréations Mathémar tiques et Physiques of Ozanam, an Enga-lish translation of which, by doctor Charles Hutton, appeared in 1803 (4 vols., 8vo.). His death took place in 1799

MONUMENT, in its widest sense, includes every thing by which the memory

of a person, period or event is perpetu- his own expense, undertook the regulation writings as well as the productions of the fine and useful arts; for Homer's poems are equally a monument of his time, as prize, which was usually the work of a the Pantheon or the domestic utensils great artist, and was regarded as an found amongst the ruins of Pompeii. honor to his family. This prize was pubthe Pantheon or the domestic utensils These monuments are of the greatest in- liely placed on a small editice or a single terest, leading us back into former ages, pillar, on which the name of the characters and presenting the manners, customs and institutions of the people. Some are valuable only in their character of memorials, that is, as preserving the memory of certain persons or events; others have an intrinsic value as works of the fine arts. (See Antiquity, Antique, &c.) The productions of sculpture and architecture, intended to transmit to posterity the memory of remarkable indi-viduals or events, are most generally understood by the term monuments of Such as ornament public antiquity. places, gardens, &c., are chiefly in commemoration of great events. Among the monuments in honor of individuals are tombs and sepulchral edifices or columns. In all ages, and with every nation, we find this description of monument, from the first rude attempts of art to its greatest perfection. The most uncient known to us are the obelisks and pyramids of Egypt, and, perhaps, contemporary with these, the tombs of the Persian kings, which are still beheld with admiration in the ruins of Persepolis. These monuments command our awe by their grandeur and simplicity, in which they are, perhaps, superior to similar works of Grecian art, though the latter excel them in bonuty. Hardly any country offered so great a number of . monumenta as Greece, where they were erected in honor of the victors in buttle, and in the solemn games, and of other distin- demisia, after which splendid sepulchres guished men, but were often also thrown are still called mausoleums. Modern Euaway on the undeserving. The warrior had statues and trophics; the victor in the games had statues and pillars. On the of great events are principally in the capisthings of Corinth, near the temple of tals, and many of these are described and Neptune, were statues of the victors in the represented in Sturm's Architektonische Neptune, were statues of the victors lection was given by the abbé de Luberrac, in the Olympic games. There were also in his Discours sur les Monumens publics many trophies. Buildings were frequently de tous les Ages et detous les Peuples (Paris, erected in commentoration of distinguish- 1776, folio). Many of the monuments of erected in commentation of distinguisherected in commentation of distinguished persons or events, which differed France are represented in Millin's Antiquigreatly in form and splendor. Thus, in the Nationales. The royal Academic des InAthens, the choragic monuments were scriptions has contributed to turn the attenerected in honor of those who had received the prizes as choragi in the theatrical and musical games. In these games it was tian kingdom, seven miles from Milan, on customary for each of the ten guilds of the Lambro. Its beautiful edifices show Athens to select one charagus, who, at that it was once a royal residence; the

Monuments of antiquity include and superintendence of the games. Each endeavored to surpass the other; the conqueror received a tripod of brass as the and the date of the games were inscribed. A particular street in Athens was appropriated to these monuments, called the street of tripods. Some of these have been preserved to our time. The most splendid of all, and the most ornamented, is the choragic monument of Lysicrates, usually called the lantern of Demosthenes; hext to this, the monument of Thrusyllus and Thrasycles, and some pillars. The Romans, who contended with the Greeks in the arts, were equally successful in monuments, of which one species is entirely theirs—the triumphal arch. (See Triumphal Arch. The earliest tombs in Greece and Rome were either orected on the spot where the ashes of the deceased were deposited, or in some other place chosen at pleasure. These latter were termed cenolaphs. Both kinds were found in the cities or their vicinity, and scattered along the roads, which they ornamented. The rude stone was by degrees transformed into a noble pillar; subsequently, on a foundation of stone, two small pillars were creeted, covered with a pediment, and the intermediate space was destined for the images of the deceased, inscriptions and bass-reliefs. Small buildings in the form of temples followed, and these, in time, increased in magnificence. The greatest monument of this description was the (so called) mausoleum (see Arrope presents monuments of both kinds. The public monuments commemorative tion of the French artists to this subject.

Monza; a city of the Lombardo-Vens-

streets are regular and well paved, and there are several handsome palaces, among which that of Mirabello contains many fine paintings and works of sculpture. The cathedral erected by Theode-. linds, queen of the Lombards, in the seventh century, is worthy of mention: among its curiosities is the iron crown of the Lombard kings, with the inscription Guai a chi-Lz toccu, which Napoleon placed upon his . head in 1805, with the words Dieu me la donne; gare à qui la touche. The popula-tion is 10,500. It was formerly the resi-

dence of the kings of Lombanty.

Moon is the name given to the satellites which revolve round the primary planets and illuminate them with light reflected from the sun. In common language, we mean by moon the particular satellite of our earth. Like the other heavenly bodies. it daily alters its apparent position among the fixed stars, and, in the course of a month, appears to make a complete revolution round the heavens, from west to east, while, at the same time, it has, like the fixed stars, an apparent daily motion from eastto west. Among all the heavenly bodies, the moon is the nearest to us. Its mean distance is estimated at about thirty times the diameter of the terrestrial equator, or 237,000 miles. The point at which it approaches nearest the earth is called its perigee; the point of its greatest distance is called the apogee. It passes through both these points in each revolution. According as it is nearer to, or farther from the earth, its diameter, as seen from the earth, appears larger or smaller, At its mean distance, this amounts to moon equals but $\frac{1}{12}$ of the earth's, and its solid contents equals but $\frac{1}{12}$. In the moon's revolution great inequalities are remarked. These arise mostly from the strong attraction of the sun in the various positions which it assumes relatively to the earth. This was first understood after Newton's discovery of the universality of the law of gravity. Tobias Moyer published the first accurate lunar tables. As the moon completes her revolution about the earth in 27 days, 8 hours, or, more accurately, in 27 days, 7 hours, 43 minutes, 5 seconds, , it passes daily, on an average, through 13° 10 35" of its course. Besides the double motion of the moon round our earth, and.

with its revolution round the earth, as appears from its always presenting the same side to the earth. In consequence of this remarkable coincidence, the earth must appear to a spectator on the moon to be always in the zenith. One side of the moon, moreover, never receives the reflection of the sun's rays from the carth, while the other is constantly illuminated by it; both sides, however, are equally illumined by the direct rays of the sun. Some little irregularity has been perceived in the surface of the moon presented to the earth, its spots sometimes appearing more to the . north, at others more to the south; a similar variation is perceived east and, west. This phenomenon is denominated the libration of the moon in latitude and longitude. The causes of both have been discovered, (See Libration.) Of all the heavenly bodies, the moon, from its comparative proximity to the earth, is the one of which most is known. That it is an opaque body, receiving its light from the sun, is evident from the phenomena of solar and lanar eclipses, but more particularly from the various phases which it presents. Even the naked eye discovers, on the illuminated surface of the moon, several spots, more or less bright; and a good telescope shows us in the bright parts on the limits of illumination, prominences and depressions, which are regarded as mountains and valleys. The numerous observations of Herschel and Schröter, through a number of years, have put the existence of these beyond dispute: Schröter has oners make the moon's actual dianthetic on the southern link, which he eter 3\frac{3}{2} times smaller than that of the called Leibniz and Dorfel, he measured earth; therefore the superficies of the by means of the shade which they may means of the shade which they may be means of the shade which they means of the shade which they means the shade which the shade which the shade which the shade which the shade w knowing, at the same time, the sun's elevation with regard to them, and found them to be 26,650 feet high; therefore. almost as high as the most elevated summits of the Himalaya. The large dark spots appear, when intersected by the Troutier line of illumination, always even and without prominences. Hence they are supposed to be plains, consisting of a substance which has comparatively little power of reflecting the sun's rays. That they are seas, is not probable, since Huyghens observed great depressions in them, and Schröter, in several of these depressions, discovered evident traces of various horizontal strate, lying one upon with the earth round the sun, if also rethe other, and forming a wall around volves on its own axis. It completes a revethem. Subroter, who measured several olution on its own axis in the same time of these depressions, found their diameter

to be from thirty feet to more than half a mile; the diameter of one, in fact, was over sixteen miles, and its depth 30,000 fathonis. The number of spots on the moon was formerly considered to be 244. Schröter has increased their number to 6000, and accurately observed and described many of them. There is no appearance of water in the moon. The depressions, with their walls and surrounding mountains, Schröter regards as cruters. The large gray spots appear to him regions which have suffered less, and in which, perhaps, some vegetation exists. He has also observed other changes on the moon's surface, which he considered to be of volcanic origin. From all appearances, it would seem that the surface of the moon is still subjected to great revolutions. Perhaps it is still torn open or thrown up in prominences by violent volcanoes and earthquakes in the interior, as may have once been the case with our earth also. Such revolutions have been supposed to afford a means of accounting for the fall of meteoric stones on the surface of our earth, the power of a volcano in the moon being supposed sufficiently great to throw such masses out of the sphere of the moon's attraction into that of the earth. (See Meteoric Stones.) The shepherd Endymion, according to Pliny, first observed the course of the moon and its changes. Hence the story of Endymion (q. v.) and Diana. Even the Chaldeans considered the moon as the . smallest amougthe heavenly bodies and the nearest to the earth; they knew that her light was borrowed, fixed her periodical phases with much accuracy, and attributed her eclipses to the shadow of the That the moon was inhabited, was conjectured by Orpheus, or rather by the author of the verses which exist under his name; and Pherecydes of Scyros, a contemporary of Servius Tullius, is said to have determined the time of her revolution. The Pythagoreans affirmed that the moon contained mountains, cities, plants, animals and then. Anaximander knew the size of the moon, its distance from the earth, and that its light was borrowed from the sun. The spots on its surface Clearchus considered to be seas. In modern times, this planet has occupied much of the attention of astronomers, disk. In this state the almanacs say the The question whether the moon has an atmosphere has been scitled by Schröter in the affirmative.—See the article on the " moon's aunosphere, in the first volume of Gehler's Physikal. Wörterbuch (Leipsic, 1825) - Doctor Francis von Paula Gruit,

huisen, professor of astronomy at Munich, lias, of late years, paid great attention to the moon, and his discoveries and hypotheses, though wanting confirmation, have excited much interest. In his opinion, the straight lines, often of considerable length and a parallel, direction, which have been observed on its surface, and which are made up of objects resembling, in shape, a star, an inverted Z, &c., are, in fact, roads, with cities, temples, dwellings, &c. At present, however, these conjectures can hardly be regarded as more than the creations of a lively imagination. The Topographie der sichtbaren Mondoberfläche, by W. G. Lohrmann (Leipsic, 1824, 4to.), represents the eleva-tions and colors of the moon's surface with fidelity, and in such a manner as not to be affected by the libration or the different degrees of illumination.-See also Drobisch's De vera Lunæ Figura, and his Symbola ad Selenographiam mathematicam (Leipsic, 1826). The various appearances which the moon periodically presents in the different parts of its revolution, are termed phases, and arise from the different positions which its opaque mass assumes in relation to the sun and the earth. Every one knows that, at a. certain period of the moon's revolution, it is invisible; at other times, it appears of a sickle shape, then semicircular, and finally. presents a complete circular disk. When the moon is between the sun and the earth (in which case the sun and moon are said to be in conjunction), it presents its unillumined side to us, and we can see nothing of it. In this state it is called the. new moon. Soon after, it recedes from the sun, and a small part of its illumined surface becomes visible in the evening horizon. Four days after the time of new moon, it has receded 45° from thosun; and now a portion of its illumined surface is seen in the shape of a sickle, with the horns towards the sun. The moon now departs every day farther from the sun, moving in a direction from west to east, and therefore appears every evening nearer the eastern horizon, and the sickle-shaped figure grows daily broader. After about eight days from the time of new moop, it has departed 90° from the sun, and now shows a bright semicircular moon is in its first quarter. Departing. continually further, the illumined portion continually increases, and assumes more and more of a circular figure, until, about fifteen days after the time of new moon. when it stands directly opposite the sun,

this state we call it the full moon. At this time, it rises when the sun sets, and shines the whole night through. From new . moon to full moon, it is said to wax (increase). From the day of full moon, it decreases, with each successive day, on the side most distant from the sun, as it is now approaching the sun at the same rate as it before departed. In the course of seven or eight days, it has again arrived within 90° of the sun, and now shows but half its disk on the left side, and is said to be in its last quarter. At this time, it rises at midnight. It now shows less and less of its illumined surface, and finally assumes the sickle shape, with the horns, however, turned from the sun; rises later and later, and at the end of about 29 days from the time of new moon again comes into conjunction with the sun, disappears, and commences a new revolution. From full moon to new moon; it is said to wane. The moon, when new and full, is said to be in its syzygies, and its appearances at the different quarters are called changes. As well before as after new moon, the naked eye can discern a pale light on the portion of the disk not illumined by the sun. This is reflected from the earth; for, at the time when it is most perceptible, the sun has not yet set, in the afternoon, and in the forenoon has been up for some time. The inhabitants of the moon, therefore, at such times, see our earth as an illumined disk in the heavens, fourteen times larger than the moon appears to us. -Age of the moon is the number of days since the new moon, which is found by the following rule: To the epact add the number and day of the month, which will be the age required, if less than thirty; and if it exceed thirty, subtract this number from it, and the remainder will be the (See Epact.)-Harvest moon is a remarkable phenomenon relating to the rising of this luminary in the harvest season. During the time she is full, and for a few days before and after, in all, about a week, there is less difference in the time of her rising between any two successive nights than when she is full in' any other month of the year. By this means she affords an immediate supply of light after sunset, which is very heneficial in gathering in the fruits of the earth; and hence it is, that this lunation has been termed the harvest moon. In order to conceive this phenomenon, it ambitious projects of Napoleon. always opposite to the sun when she is

it presents a complete circular disk. In Aries in our harvest months, these being the signs opposite to Virgo and Libra, the signs occupied by the sun about the same season; and because those parts of the ecliptic rise in a shorter space of time than others, (as may easily be shown and illustrated by the celestial globe,) the moon when she is about her full in harvest, rises with less difference of time, or more immediately after sunset, than when she is full at other sensons of the year.-Moon dial is a dial which shows the hours of the night by the light of the moon.

Moon, Mountains of the, or Donga. Mountains; a chain of mountains in the central part of Africa, S. E. of Nigritia, which it divides from unknown regious. It is supposed, with much probability, to be connected with the Abyssinian mountains, and was formerly thought to stretch across the continent, and form a junction ' with the mountains of Kong; but the Niger is now known to flow between them. Travellers have reported that the summits ; were covered with perpetual snow, which, in that latitude (about 7 or 8° N.), would require an elevation of 14,500 feet. This range was known to the ancients, and is mentioned by Ptolemy, under the name of mountains of the moon, which has been retained by the moderns.

Moor, To; to confine or secure a ship in a particular station by chains or cables, which are either fastened to the adjacent shore, or to anchors in the bottom. A ship is never said to be moored when she rides

by a single anchor.

Moore, sir John, was born at Glasgow, November 13, 1761, and, at the age . of 15, entered the army as ensign. 1790, he was made a lieutenant-colonel; and he afterwards served in Corsica, when he was wounded at the siege of Calvi. In 1796, he accompanied sir Ralph Abercrombie to the West Indies, as brigadiergeneral, assisted in the capture of St. Lucia, and was appointed governor of that island. The following year, he was employed against the insurgents in Ireland, when he was promoted to the rank of major-general. In 1799, he was sent to Holland, and was subsequently engaged in the expedition to Egypt, and was made a knight of the Bath after his return to England. In October, 1808, he landed in Spain, at the head of an English army, to aid the people in their resistance to the must first be considered, that the moon is advancing some distance into the interior, and meeting with little support from the full; that she is full in the signs Pisces and Spaniards, he was obliged to retrest, and

reached Corunna: part of his forces had embarked, when an attack took place (January 16, 1809), and the general was killed

by a cannon ball.

Moore, Thomas, was born in Dublin, in 1780. His father, a merchant of that city, spared no expense in his education. After having been under the tuition of Mr. Whyte, a man of taste and talent, he completed his education at Trinity college, Dublin. 'Ilis classical studies being finish-'ed, he went to London, entered himself of the Temple, with a view to make the law his profession, and was called to the .. bar. In moments not occupied with the study of legal writers, he amused himself with translating the odes of Anacreon, which he published, with copious notes, in 1800. This version, one of the most elegant that has ever appeared in our language, met with a favorable reception. which seems to have induced him to abandon the law, and devote himself to literature. In 1801, he published a volume of poems, under the assumed name of Thomas Little, which, though they established his poctical reputation, were severely and justly censured for licentiousness; they have, however, gone through 13 or 14 editions. In 1803, he published a Candid Appeal to Public Confidence, or Considerations on the Actual and Imaginary Dangers of the present Crisis. About this time, he went to the Bermuda islands, of which, through the interest of lord Moira, he was appointed registrar; and he also visited the U. States. Of the American character he is well known to have formed a very unfavorable opinion, and that. opinion he expressed in a volume which. came out on his return home, in 1806; this volume bore the title of Epistles, Odes, and other Poems. Like the poems ascribed to Little, many of those which were contained in this volume were ob-, jectionable in a moral point of view, and it was, in consequence, severely attacked by Mr. Jefficy, then editor of the Edin-burgh Review, The poet was so much r offended with the critic that he challenged him, and a meeting took place; but the duel was prevented by the interference of the police; and, on the pistola being examined, it was found that the seconds, or some other persons, with a provident regard to the safety of the principals, had substituted paper pellets for bullets. This gave occasion to much laughter and many. epigrams, but as both parties were known to be men of courage, their characters, in all in the wrong. I lately took Moore's this particular, remained unimpeached. In 1808, he sent to the press Corruption them, side by side with Pope's, and I was

and Intolerance, two Poems, with Notes. addressed to an Englishman, by an Irishman; and in 1809, the Sceptic, a Philosophical Satire. They were succeeded, in 1810, by a Letter to the Roman Catholics of Dublin. His next production—Intercepted Letters, or the Twopenny Postbag, by Thomas Brown, the younger (1812)—was eagerly perused, and 14 cditions of it were printed. It lashed severely the Prince-Regent, and several of the most eminent characters of the tory party. In sparkling wit, keen sarcasm, and humorous pleasuntry, it is rivalled only by another volume, cutitled the Fudge Family in Paris, which issued from the press in 1818, and the hero of which is an apostate from the principles of liberty, who has become an unscrupulous supporter of court measures. In 1813, the fame of Mr. Moore was increased by the appearance of his exquisite songs to sir J. Stevenson's selection of Irish melodies. Some of these songs are among the fluest specimens of poetry in the language, and their morality in general is not exceptionable; they have since been collected into one volume. In 1816, he published a Serics of Sacred Songs, Duets and Trios, the music to which was composed and selected by himself and sir John Stevenson. This series forms a suitable companion to the Irish Melodies. In the following year (1817) appeared Lalla Rookh, which established his claim to be ranked among the first living British poets. For this poem he is said to have received the sum of 3000 guineas: A second poem, of an Oriental character, the Loves of the Angels, appeared in 1823; and, in the same year, the Memoirs of Captain Rock, describing the condition of Ireland. In 1827, he published the Epicurean, a Tale: in 1821, he had edited a collection of Sheridan's works (2 vols.); and in 1825 appeared his interesting, though not faultless Life of Sheridan. His Letters and Journals of Lord Byron, with Notices of his Life, contains but little matter from his own hatd. His last work is Memoirs of, Lord Edward Fitzgerald (2 vols. 1831.) He is now preparing a history of Ireland. Moore's distinguishing characteristics are voluptu ousness of sentiment, grace of expression, and richness of imagery. He has napre wit than imagination, and more ingenuity than tenderness. Perhaps Byron's judg-poems, and some others, and went over

effable distance, in point of sense, learning, same spirit of finaticism, completed their effect, imagination, passion, and invention, expalsion from the country. Nearly a between the little queen Anne's man and million of the Moriscos emigrated to Afritus of the lower empire. Depend upon it, It is all Horage then, and Claudian now."

Muons; a class of the inhabitants of Western Africa, particularly of the states of Fez and Morocco. The Arabians call. them medainien (mariners); they call themselves Moslem (the faithful), and are strict Mohammedans. They are of Arabian origin; they live in towns, and are employed principally in traffic. The Romans called a part of Western Africa Mauritania, and the inhabitants Moors. Their wars with the Romans are well known. This territory was afterwards under the dominion of the Vandals, whose king Genseric (429) established a power-ful kingdom, which was, however, over-thrown (531) by Belisarius. The Saracens (Arabians), followers of Mohammed, extended their conquests in the seventh century to this part of Africa, which was governed by a deputy of the caliph of Damascus. Subsequently (711—13) they took advantage of the disorders in the Spanish kingdom of the Visigoths to , reduce that country, with the exception of a small part, under their yoke. The Spanish writers gave them the name of Moors from their residence in Mauritania. While the greatest part of Europe was sunk in barbarism, learning and the arts flourished among the Arabiaus in Spain, where re-markable monuments of their labors are still seen; but the division of the country among different rulers, and their dissensions, so weakened the power of the Moors, that they could no longer resist the inces-sant encroachments of the princes of the newly established Christian states in Spain, and were finally reduced to the possession of the kingdom of Grenada. Ferdinand the Catholic, after a ten years' war (1491), conquered this also, and thereby put an end to the dominion of the Moors in Spain, . falter it had lasted nearly 800 years. A part of the Moors went to Africa; most but sacred subjects, was born at Badajoz, of them remained in Spain, where they in 1509. His pencil is bold, his touchvigwere industrious, peaceful subjects, and orous, yet delicate, and his pictures all adopted generally the external forms of have life and action. They are generally Christianity. These last were called, in of a small size, and commonly on cop-Christianity. These lest were cause, in or a small size, and commonly of Spain, Moriscos. Philip II, in his feroper. He painted hair with peculiar excious zeal for Christianity, resolved upon cellence. Morales visited all the cities of their entire destruction. His oppressions Spain which contained any chef d'auvre, and persecutions excited an insurrection, and, by this indiscriminate study of different masters, acquired remarkable originals. of the Moriscos in Grenada (1571), after ent masters, acquired remarkable origithe suppression of which over 100,000 of mality of manner. He died at Badajoz, in

30 MOORE MORALES.

really astonished and mortified at the in- them were banished. Philip III, in the ca. As they were the most ingenious and industrious inhabitants of Spain, they MOORISH ARCHITECTURE. (See Architecture, vol. i, p. 342.) were a great loss to the country. Agriculture speedily fell into decay. This expulsion of the Moriscos is regarded as one of the leading causes of the decline of Spain. The History of the Reign of the Moors in Spain, by doctor Jos. Ant. Conde, is drawn. from Arabian manuscripts.

Moose. (Sec Deer.)

MOOSEHEAD; a lake in Maine, the source of the east branch of Kennebec river, 80 miles north of Augusta. It is about 40

miles long, and 10 or 15 broad, Moose Hillock; a mountain of New Hampshire, in the east part of Coventry, 14 miles east of Haverhill. It derives its name from the great number of moose formerly found upon it. According to captain Partridge, the elevation of the south peak is 4556 feet, and the north peak 4636 feet, above the level of the sea-I'he summit is a mass of bare granite. Snow has been found upon it in every month except July.

MURA; a game known even among the and ients, and at present much in vogue in the south of Europe. It is played by two persons. Both present, at the same time, one hand, of which some fingers are extended, or all, or none. same moment each of the parties calls out a number. If the number pronounced by one of the players agrees with the number of the fingers stretched out by both, he who pronounced it counts one, and lifts one finger of the unemployed hand. He who first succeeds in opening all the fingers of this hand, wins the game. It is gencrally played to determine who is to pay for the wine, and the like. A person unsequainted with the game finds it difficult to conceive how it can be interesting; yet you see it played with the greatest animation every where in Italy.

Morales, Louis de, commonly called el Divino, from his having painted nothing but sacred subjects, was born at Badajoz; The second of th

.586. His works are scattered through Spain. The picture of St. Veronica, in the church of the bare-flooted Trinitarians,

at Madrid, is his master-piece.

MORALITY; a sort of allegorical play, so termed because it consisted of moral discourses in praise of virtue and condemnation of vice. It succeeded the Mysteries (q.,v.) The dialogues were carried on by such characters as Good Doctrine, Charity, Faith, Prudence, Discre-tion, Death, &c., whose discourses were of a serious cast; while the province of making merriment for the spectators descended from the Devil in the Mystery to the Vice or Iniquity of the Morality, who usually personified some bad quality, and whose successor we find in the clown or fool of the regular English drama. (See France, Literature of, division Drama.)
Moralities were occasionally exhibited as late as the reign of Henry VIII, and, after various modifications, assumed the form of the Mask (q. v.), which became a favorite entertainment at the court of Eliza-

MORAL PHILOSOPHY is the science which treats of the motives and rules of human actions, and of the ends to which · they ought to be directed. The moral law is the law which governs intelligent and free beings, and which determines the character of vice and virtue. It is a natural law, 'mdependent of any human institution; a religious law, which emanates from the supreme Legislator, obligatory in itself, through the conviction which it produces, universal and immutable. The moral law revealed itself in the infancy of society. Philosophers are its expounders, not its creators. Their voice is but the echo of conscience. The first moralists confined themselves to expressing the law of duty in maxims, or to illustrating it in apologues. It needed no proof beyond a mere enunciation. Their simple precepts have been honored in all ages. Three chief eauses have concurred in developing and establishing the rules of practical morality, -positive laws, religious institutions, and civilization. Positive laws are only the written expression of the law of duty engraved in the human soul, with such provisions as the violence of the human passions requires to enforce its precepts. Logislators, it is true, have had in view rather the general interests of society than the interest of morality in the abstract; their punishments are proportioned to effects rather than intentions. But the common good is usually found to accord

knowledgment of the moral law. They require to be addressed in the name of justice.—While civil institutions have regulated the conduct of man in society, religious institutions have penetrated into the sanctuary of conscience. Moral and religious sentiments are developed almost spontaneously, and have a natural sympathy. From its alliance with morality, religion becomes refined and elevated. Christianity has blended them in the precepts of love to God and love to man .-What we call civilization, is a complex result which supposes the existence of close, extended and varied relations among men, the development of industry, the progress of intelligence and taste, the cstablishment of general order, the refinement of public and private monners. It is, in part, the fruit of civil and religious institutions. Practical morality exerts a powerful influence on it, strengthening the ties which unite individuals, fortifying the respect for equity and benevolence. encouraging labor, and assuring its reward by protecting property, favoring the progress of intelligence by nourishing the love of truth, and improving taste by purifying and elevating the sentiment of the beautiful. Civilization, in its turn, proinotes practical morality. The closer and ... more varied the relations among men become, the more sensible do they grow to their mutual duties. Labor gives man the sentiment of self-respect; the progress of scie: ce and the arts aids virtue, by enlightening the mind, and accustoming it to noble and delicate pleasures. If such are the influences of laws, religion and civilization upon morality, we need not be surprised that they have, in turn, been considered its source, from a limited view of its nature. But if the moral law is, in reality, prior to all these; why, it may be 'asked, does it appear to vary so much in its effects in different places and ages? To this we reply, that practical morality supposes two conditions—the idea of duty faithfully comprehended, and the authority of duty strongly felt. But the idea may be partially or erroneously understood, and the sentiment may be blunted or weakened. The law of duty, in the abstract, is simple, and not liable to be mistaken; but its applications are often complex and delicate, requiring the exercise of a strong and cultivated reason, and therefore affording great occasion for mistake. The feeling of duty, too, requires a certain. with individual duty; and men require, in a life of violence and sensual excess. It

religious. But the very abuse of the notion of duty supposes its existence; and we find not a few instances in which the native energy of the moral feeling has risen superior to positive institutions, and wrought fundamental changes in the laws, religious and other institutions, which had sought to enchain it. We might add, that the doctrines of philosophy have often been much more the effect of the manners of a particular country or age than the agonts which modified them .- Moral precepts may be distinguished into two orders, with reference to the degree of obligation which they impose—the imperative and the meritorious. The first commands us to render to every man his due, including, of course, our duties to ourselves ;, the second, to do for every man, ourselves included, all which is in our power, and there-I fore to strive for our own highest improvement. But the limits of these two classes cannot be distinctly defined. In considering what the moral law enjoins, we soon per-'ceive that there are degrees in our duties. Just as actions may differ in criminality,, so may they also differ in merit; and the degree in both cases will depend upon accompanying circumstances; and circumstances are often such as to make it difficult to determine on which side the balance of duty predominates. But though man is . often driven to choose between conflicting . duties, he is never obliged to choose between two criminal acts; although, in some cases, an act of guilt will present itself under the specious guise of a means for a good end; which has led some speculators to the revolting doctrine, that the end justifies the means—a doctrine sufficient to excuse the wildest excesses of fanaticism. which, in its blind zeal to effect what it deems a laudable object, tramples under foot the most sacred rights. When we minquire, what gives a moral character to A men's acts may, however, he sinful, al-, though his intention at the time may not have been bad, if they originated in prejudice or ignorance, occasioned by a sinful neglect of the means of information. Proper instruction in moral duties is therefore every man's highest interest and highest duty.—Moral duties have been distinguished into three great classes—duties to God, to our fellow-nien, and to ourselves but, though they may be classified. they are not to be separated. Duties to God comprise, essentially, all our obligations; and when we serve other men, we, in Non Maria San Co 1.1 . 10

moral Philosophy.

may, moreover, become perverted in con-fact, labor for ourselves; so, too, in improvsequence of positive ordinances, civil and ing ourselves, we are qualifying ourselves to render the highest service to others. The class of mutual duties which supports the social relations may be divided into three branches—the duties of the individual to society, those of society to the individual, and those of societies to each othi-Under the name of societies, we inclirde all the forms and degrees of humanassociation—the family, city, country, and mankind. The duties of the individual towards society differ with the station which he occupies, and the nature of social institutions. The duties of the private man, the magistrate, and the states-man, are very various. Exce institutions, as they greatly increase the sphere of efficicucy, proportionably cularge that of duty; and the rapid growth of such institutions, in our day, must give rise to new classes of social duties. Perhaps a wide field still remains open to moralists, in the : exposition of the duties which society owes to its members. Some philosophers have been so blind to these as to maintain that the public interest would justify the sacrifice of an innocent individual. And how long have mankind been in learning the respect which they owe to the individual liberty of thinking, speaking and writing? Is this respect properly understood, even at present? Have politicians duly learned the regard which they owe to the moral law? Is it a long period since the writers on general law have considered with proper attention the rules which society ought to impose on itself in the application of punishments? But it is, the relations of societies towards each other which principally demand the meditations of moralists. There is a social: itations of moralists. selfishness which meets a ready excuse; since each member of a society is apt to consider his individual character merged in his social, and that his duties towards the association with which he is connected, justify acts and feelings which would be censurable in his commerce with others in his individual capacity. Hence that esprit de corps, so bitter in its animosities, and so unscrupulous in its ambition, arming nation against nation, from commercial rivalry or lust of territorial aggrandizement, from wounded pride of thirst of conquest. The code of international law is yet very imperfect, and needs. to be completed by reference to the code of morality.—See Paley's Principles of Moral and Political Philosophy; Adam Smith's Theory of Moral Soutments; Dugald Stewart's Philosophy of the active and

moral Powers of Man; Degerando's Perfectionnement Maral; Mackintosh's History of the Progress of Ethical and Po-litical Science (Landon, 1830)—We shall now say a few words on the different theories of moral sentiments. Philosophers have endeavored to establish some general principle from which the laws of practical morality may be derived, and to which, in doubtful points, we may refer, . to determine our rule of conduct in particular cases. The Hindoo moralists find their moral principle in the precept to . purify the soul from all sensual desires. Plato, who draw from Eastern fountains, expresses his law of morality under three different forms-Strive to resemble the Deity. Let your passions be in harmony with cach other. Live in accordance with the fundamental type of the soul, or inborn ideas (or, according to the Stoics, with nature). Aristotle considered virtue and prudence as the same, and recommended the golden mean, or a rational avoidance of extremes; virtue, according to him, consists in the habit of mediocrity according to right reason. Epicurus (who did not however, understand his precept in the low sense usually ascribed to it) founded his moral system on the rule, Live to enjoy thyself; which has been considered to refer to the happiness which virtue gives; and it is certain that Epicurus hunself was a model of virtue. The New Platonists followed their master on this. point. The fathers of the church did not attempt to establish any universal moral principle; nor did the Scholastics (q. v.). The English moralists have founded their systems on different principles; Hutcheson's rests upon the principle of benevolence, and assumes a moral sense; Ferguson followed the Epicurean theory; Sam-· uel Clarke places virtue in acting according to the nature of things, by which man will facilitate his progress to his destined sphere. Adam Smith assumes sympathy as the moral principle; Wollaston, the acting according to the truth of things; lord Shaftesbury, the maintenance of a proper balance of the affections. Paley's system is founded on utility. Cudworth Considers virtue as an innate principle. Of the continental moralists, Grotius and Puffendorf derive all duties from the fundamental obligation to improve the condition of others and of one's self, and therefore command us to endeavor to do all in our power to promote the general good. The precept of Crusius, who considers duty an obligation to God rather than to man, is, Ohey all the precepts of God. Thomasius,

Leibnitz and Wolf give, as their fundamental principle, Aim at perfection; Kont, Be thy own lawgiver, and strive less for dominion over others than over thyself. In all theories of morals, two questions arise—What is virtue? How is it recommended to us? And all theories on each point may finally be reduced to three: on the first, that virtue is benevolence, or prudence, or propriety; and on the second, that it is recommended to us by self-love, or reason, or a moral sense.

Morar (Murlen ; Latin, Muratum) ; a. town in the Swiss canton of Friburg, on the lake of Morat (Murtensce), 14 miles west of Berne. It derives its celebrity from the battle fought here between the soldiers of the Swiss confederacy and Charles the Bold, duke of Burgundy, in 1476. After the loss of the battle of Granson (March 3), the fiery duke collected a new army of 40,000 men, and presented himself (June 10) before the gates of Morat. To the aid of the Swiss came their allies, the Rhenish cities, and Rene, tho young duke of Lorraine, who had been driven from his estates by Charles, was with them, but not, as some have said, in the command. Their forces were much inferior to those of the duke; but, having reconnoitered the position of the enemy, they attacked him, drove in the out-posts, entered the camp with the fugitives, and, being joined by the garrison of Morat, gained a complete victory, making themselves masters of the hostile camp, agtillery and baggage. Charles himself escaped merely by the speed of his horse, and, accompanied by only twelve horsemen, fled to Soigne, a town of Champagne, 70 miles from Morat. The remains of the killed (15,000) were thrown into a large pit, and covered with lime and earth. large building was afterwards creeted, in which they were collected, and which bore the inscription, D. Q. M. Caroli inclyti et fortissimi Burgundiæ Ducis Exercilus, Muratum obsidens ab Helveliis cæsus hoc Sui Monumentum reliquit. Anno. 1476. And beneath were these words:-

Dies Gehein ist der burgundischen Schar, Im vierzehnhundert siebzig uml sechsten Jahr, Vor Murten durch ein Ridgenossekuft Ertegt mit Beistand Gottes Kraft. Auf der zehntausend Rittern Tog Geschah dies grosse Niederlag.

This monument was destroyed by the French army in 1798, and a lime-tree, surrounded with a fence, planted in its place. In 1822, the Swiss confederacy creeted an obelisk on the spot, as a national memorial of the battle.

Moravia (in German, Mahren); a margraviate and province of the Austrian em-The margraviate (8862 square miles) borders on the Prussian county of Glatz and Austrian Silesia to the north, on Hungary to the east, on Lower Austria to the south, and on Bohemia to the west. The province includes also Austrian Silesia (1850 square miles), and contains a population of 1,990,464 inhabitants, of whom about 430,000 are Germans, 30,000 Jews, 900 Boltomians, and the rest Sclavonians. It is watered by many rivers, of which only the Marsch or March is navigable for a short distance: on the north, east and west, it is enclosed by mountains, which are to be considered as continuations of the Sudetic and Carpathian chains, and is open only to the south. To the north, on the borders of Glatz, lies the Schnergebirge, the highest summit of which is the Schneeberg, about 4500 feet high. general, the loftiest mountains are in the northern part, from which the elevation gradually diminishes towards the south. There are also ridges of hills in the interior, interspersed with fine plains and valleys. The mountainous districts are not fertile; but in the Hanna (land of the Hannaks) - and in the southern part, the soil is uncommonly rich. The breeding of cattle, although favored by rich mentions and pastures, is less attended to than tillage, Great numbers of poultry, particularly geese, are raised. The tisheries are productive. The principal corn districts are in " the Hanna, on the March, about Brinn, and in the south-eastern parts of the circle of Znaym. Flax, hemp, fruits, garden vegetables, &c., and in some parts wine, are produced in abundance. Silver and gold were formerly found; iron, sulphur, . coal and alum are the chief mineral productions. Woollen and linen manufactures, the latter employing 200,000 spinners and 13,000 weavers, and the former 100,000 workmen and 10,000 looms, and also cotton manufactures, are carried on to a considerable extent. The transit trade of the province, favored by good roads, is important. The government of Moravia is almost entirely absolute, although it has estates, composed of the prelates, the lords, knights, and royal burgesses. The administration of the affairs of the prov-. fuce is in the hands of a provincial government at Brann, to which the six Moravian circles (Olmutz, Brum, Iglau, Znaym, Chief place, Vannes. (See Department.)
Hradisch and Preruit, and the two Silesian circles (Troppiu and Teschen), are case, and often used in medicine. circles (Olmûtz, Brûnn, Iglau, Znayın, subordinate. The (Catholic) bishops of Mordants. The coloring substances. Britim and Olmutz are at the head of ecused in dyeing have been divided by docsubordinate. The (Catholic) bishops of

clesiastical affairs. The revenue is about. 6,000,000 guilders. Brunn is the capital. The Sclavonic population consists of several tribes, which differ in habits and language, and are in a rude state. Among these are the Slowaks (distinguished for wit, eloquence, and taste for the arts and sciences), and the Hannaks (distinguished for hospitality). Previously to the fifteenth . century, they professed the Greek religion; the Hussites were then numerous, and, in the sixteenth century, the reformation had many adherents; the Catholics, however,are the most numerous, their number being 1,800,000. This country was acciently the land of the Quadi, and was occupied, after their emigration to Spain, by the Seyri, the Rugii, the Heruli, and, until . 548, by the Lonibards, when it was entered by a colony of Sclavonians from the Danube, who were driven from their former seats by the Walachians (Bulgarians), and were called Moravians from the river Morava. After the full of the kingdom of the Avars, the Moravian Sclavonians extended their limits, and finally tounded the kingdom of Great Moravia, which comprehended several other countries besubdued the Moravians, and compelled their king Samoslav to be baptized; Cyrillus (856), however, was the true apostle of Moravia. Arnolph at first enlarged the Moravian state, by granting to Swato-pulsk, or Zuatoblick, Bohemia and other countries on the one side to the Oder on the other, towards Hungary as far as the Gran. Swatopulsk afterwards revolted: but Arnolph attacked him, with the aid of the Bohemians and Hungarians, and so enfeebled the kingdom, that, under his successor, it was completely overthrown. From that time Moravia became the mey of the Hungarians, Poles and Germans. In the eleventh century, it was reduced to . about its present extent, and formed a part of the Bohemian territories. In 1085, it was made a margraviate, and (until 1611, when it was, for a time, attached to the Hungarian dominions) granted by the Bohemian kings, from time to time, as a fief. to their sons or relations. (See Bahemia.)

MORAVIANS, OF HERRNHUTERS. United Brethren, and Bahemian Brethren.) Morbinan; a départment of France, in the old province of Bretagne, lying on a gulf from which it has received its name, ...

tor Bancroft into substantive and adjective colors. Substantive colors are those which communicate their tint immediately to the material to be dyed, without the aid of any third substance. Adjective colors require the intervention of a third substance, which possesses a joint attraction for the coloring matter and the stuff to be dyed. The substance capable of thus fixing the color is called a mordant, and by Mr. Henry, a basis.

Merdaunt, Charles. (See Peterbor-

ough, Earl of) (
Mose; the final syllable of a number of Irish geographical names, signifying, in the language of the country, mountain.

Mone, Henry, a celebrated divine of the church of England, and Platonic philosopher, was born in 1614. He was the sonof a gentleman of good estate, who educated him at Eton, whence he was sent to Christ's college, Cambridge, in 1631. While at the university, he deeply studied the most celebrated systems of philosophy, and finally settled into a decided proference for that of Plato, and for his followers of the school of Alexandria. In 1639, he graduated M. A., and in the following year published his Psycho-Zoia, or the First Part of the Song of the Soul, containing a Christiano-Platonical Display of Lite. Having been elected a fellow of his college, he became a tutor to several persons of acuk. One of these was sir John Finch, whose sister, lady Conway, an enthusiast of his own stamp, brought him acquainted with the famous Van Helmont, and that singular pretender, Valentine Greatrakes. In 1675, he accepted a prebend in the church of Gloucester, which it is supposed he took only to resign it to his friend doctor Fowler. also gave up his rectory of Ingolsby, in Lincolnshire, the perpetual advowson of which had been purchased for him by his father, and would never afterwards accept of preferment of any kind, refusing deaneries, bishopries, and even the mastership of his own college, so desirous was he of. unmolested study. During the civil war, although he refused to take the covenant, he was left unmolested. In 1661, he became a fellow of the royal society, and for twenty years after the restoration, his writings are said to have sold better than any other of their day. Doctor More died. with his conversation, he was received into in September, 1687, aged 73, leaving be, the highest degree of familiarity. In bind him the character of a man of profound learning and great genius, alloyed by a deep tincture of enthusiasm, chiefly Wolsey, elected speaker of the house of colored by the supposition that divine commons in which capacity, having done knowledge had been communicated to much to frustrate an oppressive aubsidy,

Pythagoras by the Hobrews, and from him to Plato. He was also persuaded that supernatural communications were made to him by God's appointment, by a particular genius, like that of Socrates. writings of this singular, but amiable man, who was beloved by all parties, have been published in two volumes, folio." most admired are his Enchiridion Ethicum, and Divine Dialogues, concerning the attributes and providence of God. (See Ward's Life of Doctor More.) More, sir Thomas, a celebrated chancel-

lor of England, was the only son of sir John More, one of the judges of the court of King's bench, and was born in London, in 1480. He received his early education from a schoolmaster of great reputation in Threadneedle street, and was afterwards placed in the family of cardinal Morton, archbishop of Canterbury, and chancellor, who prophesied his future eminence. In 1497, he went to Canterbury college, now Christ-church, Oxford, and, in 1499, became a student in Lincoln's Inn. At the age of . 21, he obtained a sear in parliament, and distinguished himself with so much spirit in opposition to a subsidy, demanded by A Henry VII, that the exasperated and avaricious monarch, in revenge, contrived a quarrel with his father, whom he imprissoned until he had exacted an arbitrary. fine. After being admitted to the bar, he was appointed law reader of Furnival's Inn, applied assiduously to the practice of law, and enjoyed great reputation as a pleader. In 1516, he accompanied the commissioners sent to renew the alliance between Henry VIII and Charles, then arch-duke of Austria, and showed so much ability, that the king was desirous of engaging him in his particular service. In 1518, he published his celebrated political romance of Utopia, which engaged him in a correspondence with Erasmus, with whom he had previously contracted an intimacy while in England; as well as with several other eminent men of letters. Cardinal Wolsey pressed him to receive a pension, which he refused, as inconsistent with his official duties; but after a while he was induced to accept the place of master of requests. He was shortly after knighted, and taken into the privy council; and, the king becoming delighted. 1520, he was appointed treasurer of the exchequer, and, in 1523, at the instance of Wolsey, elected speaker of the house of

by this conduct, it was not of long duration, as, in 1527, he was joined with Wolsey in a mission to France, and on his return was made chancellor of the duchy of Lancaster. In 1530, he succeeded the disgraced cardinal as lord high chancellor, which office he filled three years with Unable to acquiscrupulous integrity. esce in the king's wishes respecting his divorce from Catharine of Arragon, be obtained permission to resign the seals. The affront rankled in the vindictive mind of Henry, which was still further inflamed by his refusal to extend the coronation of Anne Boleyn. An attempt was made to implicate him in the practices of Elizabeth Barton, which altogether failed; and he also perfectly cleared himself of another singular charge, which was that of inducing the king to publish the book against Luther, in which the pope's authority was held forth-a doctrine that was now found inconsistent with the intended attack on the Roman sec. At length the oath of supremacy being required by act of parliament, sir Thomas More was cited before the council to take it; and in spite of all the sophistry of Cranmer and others to induce him to compliance, he nobly persisted in a refusal to act in opposition to the dictates of his conscience, and was consequently committed to the Tower, and indicted for treason. After an imprisonment of twelve months, during which time he resisted all attempts, both public. and private, to induce him to retruct, he was brought to trial, and, after an elequent defence, condemned, and sentenced to be hanged and quartered. He received this barbarous sentence with his usual composure, which was disturbed only by the circumstance of a singularly affecting interview with his favorite daughter, Mrs. Roper, on his return to the Tower. king changed the sentence from hanging and quartering to beheading; which act of grace he received with his usual vein of humor, and also acquiesced in the tyratifical mandate, "that he should not use many words at the scaffold." His execution took place July 6, 1535, when he deported himself with a degree of good huinor, which, in another sort of mun, might be termed levity, but which Addison attributes to the satisfaction arising from conscious integrity, and lord Byron, to a species of temperament too strong even for the control of circumstance, and which conceals a sense of misery without destroying it. Thus died sir Thomas More,

he highly exasperated the cardinal. If at the age of 55, than whom a character he gave any personal offence to the court, of more disinterestedness, and integrity is scarcely to be met with in either ancient or modern history. His learning was various and extensive, his wit abundant, and his elecution ready and agreeable. Exhe considered herefics indeed, the qualities of his mind were most happily blended and tempered. His English works were published collectively by order of queen Mary, in 1557, and his Latin in 1567, at Busle. His Utopia has been translated by lishop Burnet and doctor. Warner. See the life of More by sir James. Mackintosh in Lardner's Cabinet Cyclopadia By his first wife sir Thomas More had three daughters and one son. Murgard, his eldest and favorite daughter, married. William Roper, Esquire, of Edulary, in . Kent, who wrote the life of his father-inlaw, published in 1716. She was mistress of the Greek and Latin languages. and composed with elegance both in English and Latin. Her reverence and affection for her father were unbounded. After his head had been exposed fourteen days. on London bridge, she contrived to obtain it and carefully preserved it; and when sho died, it was, at her dying request, buried in her arms.

More, Hannah, is the youngest of five daughters of a clergyman at Hanham, near Bristol. All her leisure hours in childhood were devoted to reading. Her sisters having for some time conducted a small school, their reputation cuabled. them to venture on taking pupils of a higher class. They removed to Bristol, about 1765, and opened a boarding school, which soon became one of the most celebrated in the west of England. Miss Haumh More removed with them, and she quickly acquired the friendship of the reverend doctor Stonehouse, a man of; taste and knowledge. He encouraged her: to write, and corrected all her early effit-The Search after Happiness, a. sions. Pastoral Drama (1779), was her first publication, and was so favorably received, that she was encouraged to print, in 1774, her Sir Eldred of the Bower, the Bleeding Rock, and a tragedy, called the Inflexible Captive, founded on the story of Regulus. Mr. Garrick advised her to write for the stage. Her Ode to Dragon, Mr. Garrick's house-dog, came from the press in 1777, as did also a volume of Essays of several Subjects, designed for Young Ladies. Next year, her tragedy of Percy came out in was well received, and established her fame as a dramatic writer. In 1779, she

produced Fatal Falsehood, a tragedy. Miss More's thoughts, however, soon took a more serious turn; and, in 1782, she published Sacred Drumas, with Simplicity, a poetical epistle. Some of these dra-mas had previously been acted by the pupils of Miss More's school. She afterwards took an opportunity, in an edition of her works, to declare that she did not think the stage in its present state becoming the countenance of a Christian, and she renounced all dramatic attempts, except as poems for the closet. She and her sisters retired, about twenty-five years ago, with an easy fortune, from Bristol to Mendip, in Somersetshire, where they effected a great improvement unong the colliers, by establishing charity-schools. In 1785, she wrote a Biographical Preface to the Poems of Anne Yearsley, a Milkwoman. In 1786, Florio, a tale, and the Bas Bleu, or Conversation, two poems. Thoughts on the Manners of the Great is separated from the rest of the peninwas published the same year anonymously. This was soon followed by Estimate of the Religion of the Fashionable World, which excited much attention; Village Politics, (1793); Remarks on the Speech of Monsieur Depont, on Religious Education (1793); and Strictures on the Modern System of Female Education (2 vols., 8vo., 1799). When the education of the princess Charlotte became a subject of national importance, Mrs. More, it is said, was consulted by the first lady in the kingdom on the subject, in consequence of which she produced (in 2 vols., 12mo., 1808) Hints towards forming the Character of a Young * Princess. This excellent woman has been long confined to her bed by an excruciating disease, but still continues to write, and in this state has produced some of her best performances, among which are Codels in Search of a Wife, which appeared in 1809, and was so much admired, that it rau through ten editions in one year; Practical Piety (2 vols., 1811); Christian Morals (2 vols., 1812); Essay on the Character and Writings of St. Paul (2 vols., 8vo., 1815); and Moral Sketches of prevailing Opinions and Manners (1819). Her miscellaneous works have been collected in eight volumes. She has written many small pieces, which are not printed in her works.

MOREA (Mupins); the modern name of the Peloponnesus (q. v.); a peninsula forming the southern part of Greece, between let 36° 23' and 38° 20' N., and lon. tween lat. 36° 23' and 38° 20' N., and lon. Laconia. Formerly adorned with a hun-21° 5' and 23° 30' E. It is connected by . dred cities, it now hardly contains any the isthmus of Corinth with Continental thing that deserves the name. Tripolit-Greece, or Livadia, from which it is separated in other parts by the gulf of Lepanto cadia, Napoli di Romania, Monembasia, vor. 12

or Corinth and the gulf of Athens. To the south-west, it is washed by the fonian sea, to the east by the archipelago. It is about 160 miles in length and breadth, with a superficial arca of 7225 miles. The population of the ancient Peloponnesus has often been estimated at 2,000,000, but it probably never amounted to half that number. Before the late revolution, the Morea contained, according to Soutzo, the Greek historian, 460,000 inhabitants, of whom 50,000 were Turks; at present they do not exceed 280,000. The coast is much indented, forming on the south the gulfs of Kolokythia or Laconia, and the gulf of Coron or Messenia, and on the east, the gulf of Argos or Nauplia. The surface of the country is, in general, mountainous; the northern half, however, presents a fruitful plain, intersected, in some parts, by the Cyllenian mountains, The most southern promontory, Maina, sula by the different branches of the Taygetus. The rivers are numerous, but not large; the principal are the Alpheus and the Eurotas. The climate is mild, though less so than formerly, on account of the destruction of the forests. spring and autumn are delightful, but the summer is hot, and the winter is attended with frequent storms and rain; the soil is fruitful, producing corn, wine, oil and fruits, honey, figs, silk and cotton. The chief article of export is the small raisins, called currents, from the city of Corinth. The long oppression of the Turks discouraged the progress of the mechanical arts, and the devastations of the Greek revolu-. tion swept away almost every establishment for manufactures. Excellent ports, such as Navarino and Napoli di Remania, will facilitate the commerce of the coun-The population is at present almost entirely composed of Greeks; they are vigorous, well made, active and intelligent, but cuming, artful, inconstant and superstitious. Under the Turkish dominion, the Morea was divided into two sungiacks, that of Morea or Tripolitza, and that of Mistra or Mistra. Since the liberation of Greece, it has been divided into seven provinces, in which, as also in respect to other places, the Greeks have attempted to revive the ancient names. They are Argolis, Achaia, Elis, Arcadia, Upper Messenia, Lower Messenia, and za, Coron, Modon, Misitra, Calamata, Ar-

Argo and Patras, are the principal. Among the ruins of the ancient cities, those of Sparta, Mycenæ and Mantinea are the most interesting. The ancient history of the peninsula is given in the article Peloponnesus; the modern history, in the article Greece, Revolution of. On the division of the Roman empire, Greece formed a part of the Fastern empire, and the Morea was taken possession of by the Venetians, at the time of the decline of that empire. In the middle of the fifteenth century, the Turks wrested almost the whole of the peninsula from the Vene-tian republic. Towards the end of the seventeenth century, it was again recovered by Venice, and coded to it by the peace of Carlowitz, in 1689. It was restored to Turkey in 1715. In 1770, Russia excited an insurrection among the Moreots, which was suppressed, and followed by the execution of a great number of the insurgents. Besides the works referred to, in the article on the revolution of Greece, particularly Ponqueville's and Anderson's works, the reader may consult Trant's Greece, in 1830, and Leake's Travels in the Morea (3 vols., 8vo., 1830).

Moreau, Jean Michel, the younger, born at Paris, 1741, a scholar of Lelorrain, accompanied the latter to St. Petersburg, when he was chosen director of the academy of arts in that city. Moreau went with him as assistant, though he was then but 17. Two years after this, Lelorrain died, and Moreau returned to Paris. Being entirely without means, he abandoned painting, and, under Lebas, devoted himself to the study of engraving; and, as he drew with skilf, he prepared the designs for his plates himself. Moreau quickly established his tame. He prepared engravings for the works of Homer, Thucydides, Marcus Aurelius, Virgil, Juvenal, Ovid, Corneille, Racine, La-fontaine, Regnard, Crebillon, Rousseau, Montesquieu, Marmontel, Raynal, Mably, Gresset, Barthélemy, Saint-Pierre, Voltaire and Molière, to each of the two latter two different 'ser'es of engravings (making, together, more than 100 plates); also 60 plates for Gessner's writings, 80 for the New Testament, and 160 for the History of France. The great variety of these subjects prove his extensive information; and Moreau night be considered as a living encyclopædia of arts. In 1770, he was commissioned to prepare all the drawings required for the public festivities, and those of the court; and he commenced his duties with the sketches for the celebration of the nuptials of the dau-

phin and the other royal princes, 1775, he published engravings, executed by himself, of his drawings for the coronation of Louis XVI, and was made member of the academy of painting, and draughtsman of the royal cabinet. His activity is shown by the number of his productions; for, besides what he completed. as royal draughtsman, the number of drawings which he executed for engravings amounts to 2400. In 1784, he made a visit to Italy, which forms an epoch in his opinions and productions. All his works, after that period, are freer and nobler. As late as 1810, he enriched the exhibition of works of art with two drawings, each of which contained more than 300 figures. His disinterestedness prevented him from accumulating property. He died at Paris, 1814.

Moreau, Jean Victor, one of the oldest and most celebrated generals of the French republic, was born at Morlaix, in Bretagne, in 1763. His father destined him for the law; but, led by his decided predilection for the military profession, he fled from his studies, and culisted in a regiment, before he had attained his 18th year. He was not, however, suffered to indulge his ruling passion, but was obliged to apply himself anew to the study of law at Rennes, of which school he became provost. When the revolution broke out. he had acquired considerable reputation; and, in 1789, a general confederacy of the Bretons being formed at Poictiers, he was chosen its president, and also became commander of the first battalion of volunteers, raised in the department of Morbi han, at the head of which he joined the army of the north. He subsequently fa-vored the party of the Gironde, the fall of which much affected him; and it was with great repugnance that he accepted the constitution of 1793, when formally presented to 'the army.' In the mean time, he much distinguished himself at the head of his battalion; and Pichegru, under whom he served, did all he could to befriend him. The same year, he was made general of brigade, and, in 1794, general of division, and was intrusted with a separate force, to act in maritime Flanders. where he took many towns. He also had a share in the memorable winter campaign of 1794, in which be commanded the right wing of Pichegru's army. He was soon after named commander-in-chief of the army of the Rhine, and commenced that course of arduous operations which terminated in the celebrated retreat, from the extremity of Ger-

many to the French frontier, in the face. Here he remained some years in peace. of a superior army, by which his skill as a consuminate tactician was so much exalted. Meantime, the republic was torn with intestine divisions, and a conspiracy was entered into by Pichegru, which it was the fortune of Moreau to discover, by · a correspondence which accidentally fell into his possession. After struggling, for some time, with his friendship for his old commander, he finally gave up these documents to the directory; but the evident reluctance with which he took this step, excited suspicious at Paris, and, finding that he could not explain himself satisfactorily, he begged leave to retire, which was granted. His talents as a general again brought him forward, and, in 1798, he was sent to 'command the army of Italy, where, after some brilliant successes, he was obliged to give way to the Russian force under Suwarrow, and he managed another retreat with great skill. On quitting the command in Italy for that on the Rhine, he visited Paris, where he received some propositions to strengthen the party ' of the declining directory, to which he would not accede. On the return of Bonaparte from Egypt, he at first cordially supported him; but a coldness and jealousy ensued; notwithstanding which thelatter, as first consul, intrusted him with the command of the armies of the Danube and the Rhine. The passage of these rivers, with the battles of Möskirch, Engen, Memmingen, Biberach, Hochstädt, Nördlingen, and others, followed, ending with the decisive victory of Hohenlinden. which induced the Austrians to ask for On his return to Paris, he was received by the first consul with the most fluttering attention; and he soon after contracted an alliance with a young lady of birth and fortune, whose ambition, with that of her connexions, is supposed to have fomented the discontent which soon after induced him to retire to his estate at Grosbois. He was finally accused of participation in the conspiracy of Pichegru. and Georges, was brought to trial, with 54 other persons, declared guilty upon slight evidence, and sentenced to two years' imprisonment, and to bear the expenses of the suit. He was, however, allowed to travel, in lieu of imprisonment, and to seek an asylum in the U. States of America, on condition that he would not return to France without permission from the government. He accordingly embarked at Cadiz, in 1805, and safely reached America, where he bought a fine estate, near Morrisville, on the Delaware.

until, listening to the invitation of the allies, and more especially of Russia, he embarked for Europe in the July of that . year, and, reaching Gottenburg, proceeded to Prague. Here he found the emperors of Austria and Russia, with the king of Prussia, all of whom received him with great cordiality; and he was induced to aid in the direction of the allied armies against his own country. It was a fatal' resolution to himself; for, on the 27th of August, soon after his arrival, while con-, versing with the emperor Alexander on horseback, in the battle before Dresden, & cannon bull fractured his right knee and. leg, and carried away the calf of the left, so as to render the amoutation of both necessary. After languishing five days, he expired, Sept. 1, 1813. He was buried at St. Petersburg, and the emperor of Russia made an ample provision for his widow, who also received the title of marchale from Louis XVIII. The manners of Moreau were simple, and he was humane and generous, as well as brave. His great merits, as a soldier, all parties admit; but much of his personal conduct as a partisan, and especially that which led to the termination of his life, will be judged of variously by persons of different political opinions.

Morell, Thomas; an eminent writer on philology and criticism, in the last century. He was a native of Eton, and received his education in the college there, as a scholar on the foundation. He removed to King's college, Cambridge, of which he was chosen a fellow, and, in · 1743, took the degree of D. D., and entered into holy orders. His death took place in 1784, at the age of 80. Doctor Morell republished, with improvements, King's edition of four of the tragedies of Euripides (1748, 2 vols., 8vo.), and published an edition of the Prometheus Vinclus of Æschylus (4to.); a Lexicon of Greek Prosody (4to.); and a translation of the Epistles of Seneca, with notes (2 vols., 4to.); selected the words for some of Handel's oratorios, and assisted in a modernized version of the Canterbury Tales of Chaucer.

Moreller, Andrew; abbe, and increber of the French academy, born at Lyons, March 7, 1727, and educated in the semi-nary of the Thirty-Three. His industry, regularity, and good conduct, obtained him admission into the institute of the Sorbonne, where he passed five years entirely devoted to study. He then accompanied a young nobleman to the college

of Du Plessis, and afterwards on a tour to hood, copying, making extracts, taking Italy, in the capacity of tutor. While at notes, and compiling catalogues. He ac-Rome, in 1758, he made an abstract of · Eymeric's Directorium Inquisitorum, which was published four years later, under the title of Manuel des Inquisiteurs. On his return to Paris (1759), Morellet was admitted into the distinguished circle of Mad. Gooffrin; and, having published a satirical piece, in answer to Palissot's tragedy of the Philosopher, entitled Préface des Philosophes, in which he made an offensive allusion to the princess de Robecq, he was confined in the Bastile. In 4766, he published a translation of Beccaria on Crimes and Punishments, and, in 17(2), issued a Prospectus d'un nouveau Dictionnaire de Commerce, on which he was employed 20 years, and which was suspended by the revolution. In 1772, he visited England, where he became acquainted with Franklin and other distin-. guished individuals; and, in 1783, his services were required in the negotiations for peace, between England and France, and were rewarded by a pension of 4000 livres. On the outbreak of the revolution, he published several pamphlets on political subjects, opposed the abolition of the academy, though without success, but succeeded in saving its archives from destruc-His Cri des Familles, in defence of the rights of the children of those who perished in the time of terror, and his Cause des Pères, in favor of the emigrants, while, they hazarded his safety, gained the esteem of the good. The loss of his pension, at this time, obliged him to undertake the translation of several works, novels, travels, &c., from the English. On the establishment of the institute, he was passed over, but, in 1803, was admit-· ted into the academie. A fall, which broke his leg, in 1815, at the age of 88, did not diminish his literary activity, and his last years were occupied with the . Mélunges de Littérature et de Philosophie du dix-hultième Siècle (4 vols., 1818). He died 'in 1819.—See the Mémoires inedits de l'. Ibbé Morellet, by Lemontey (Paris, 1823, 2 vols.). Morrita, Giocomo, the celebrated librarian of St. Mark's, was born at Venice, ih 1745 (died in 1819), of poor parents, and 'received an imperfect education, the defects of which he endeavored to supply by his personal exertions. His frequent visits to the Zenian library, and the nature of his studies, attracted the notice of the librarian Rubeis, who was so much pleased with his zeel and intelligence as jards, who had taken the place of the to aid him in his pursuits. He visited the original ce'onists. The colony was called

quired a knowledge of Greek, and afterwards of French, and soon became known for itis learning and industry. His Biblio-theca manoscritta del Bali T. G. Farsetti (1771-80), and His Dissertazione storica interno alla pubblica Libreria di S-Marco (1774), and his Codd. Mss. Lat. Bib. Nanianæ relati cum Opusculis ineditis ex iisdem depromptis (1776), had already made him favorably known abroad, when, in 1778, he succeeded Zanetti as librarian of St. Mark's. During 41 years, he lived only . for this library, which he increased by several valuable collections, obtained from his friends, and from public offices, and to the stores of which he gave new value by his arrangement of them. It is impossible to paint his grief when he was obliged to surrender some of the books to the' French; and when the order for removing the library to the ducal palace was communicated to him, he burst into tears, and fainted away. Morelli compiled a catalogue of the Pinellian library, which he had himself arranged, in 6 vols., 8vo. His editions of Aristides against Leptine, Libanius's Defence of Socrates, Aristoxenos's Rhythmica Elementa, and his Epistola septem varia Eruditionis (1819), and particularly his Bibliotheca Manuscripta, with numerous other works of a critical. bibliographical and antiquarian nature, are monuments of profound learning, acute criticism and unwearied industry. His Operetteappeared at Venice, in 3 vols. (1820).

Morena, Siebra (Ariani montes, or Mirianus mons of the ancients); a mountainous chain in the Spanish peninsula, which goes off from the Iberian mountains, runs through New Castile, divides Castile from Andalusia, and the latter from Estremadura, and terminates at cape St. . Vincent, on the western coast of Portugal. The highest summits are not over 3000 feet high. Different parts of it bear the name of Sierra (Spanish, ridge) de Cordova, Sierra de Guadalcanal, Sierra de Caldeiraon, and Sierra de Monchique. It is the scene of several events in Don Quix-In 1768, during the reign of Charles III, Olavides (q. v.) established a colony, composed principally of foreigners, in the central part of the chain. It contained about 10,000 individuals at the time of his disgrace, but was then neglected, and mostly deserted by the colonists. 1791, the number was 6200, chiefly Spanother libraries in the city and neighbor- Nuevas Poblaciones de Sierra Morena; tho

chief place, La Carolina, in honor of the king. The name of the chain (signifying, in Spanish, black mountain) is supposed to be derived from the dark appearance of its forests.

Moreni, Louis, a Expech ecclesiastic and biographical writer, born in Provence, in 1643, was educated among the Jesuits, at Aix, and, entering into holy orders, became almoner to the bishop of Apt. That prelate having formed the plan of a universal historical dictionary, caused rescarches for materials to be made, in various countries, and particularly in the Vatican library at Rome. Not choosing to let the work appear in his own name, he transferred his collections to Moreri, by whom they were arranged and prepared for the press. He published his Dictionnaire Historique at Lyons, in 1674, in one volume, folio; and a second edition, cularged to two volumes, appeared in 1681. Moreri died in the course of the preceding The voluminous compilation to which his labors gave birth, having been variously augmented, by Le Clerc and other writers, extends, in the last edition (published at Paris, in 1759), to 10 vols., fol. (See Gro-

Morrisques, in painting, tesques.)

Moreto y Cabaña, Augustin; an eminent Spanish dramatic poet in the reign '4' Philip IV, of whose life nothing is known, except that he wrote plays, sometimes in connexion with other writers, and sometimes by himself, but afterwards entered a religious house, and renounced poetry. In comedy, many prefer him to Calderon, although they blame the defects of his plots, and his incorrect style. Some of his plays are entirely comic, and distinguished for character, although in the form of the Spanish comedies of intrigue. His comedy De fuera vendra, quien de Casa nos echara (with several others, in Huarte's Teatro Español) contains several characters, drawn with much humor and comic power. His Grazioso (the clown or buffoon of the comedias de capa y espada) too often utters stale jests. His El Desden con el Desden, one of the most popular Spanish comedies, has been imitated in other languages (in French by . Molière, in his Princesse d'Elide). His No puede ser was also brought upon the French stage, by Dumaniant, in the Guer-. re ouverte, and imitated, by Molière, in his École des Maris. His dramas are found in the Comedias de Moreto y Cabaña (1676—1681, 3 vols., 4to.).

Morgaeni, Giambattista; one of the most learned physicians and anatomists

of Italy, born at Forli, in the States of the Church, in 1682, studied at Bologha, where the celebrated Valsalya was his friend and teacher, and soon became so distinguished in natural philosophy, medicine, and also astronomy, that he was able to assist his master in his lectures. But he devoted himself more particularly to the study of anatomy, and, in his 21th year, composed some important and valuable. essays on anatomical subjects. After passing several years in his native city, as a practising physician, he became (in 1712) professor of medicine in Padua. His fame as an anatomist was extended throughout Europe, and procured him admittance to the principal academies. Among his numerous writings are his Adversaria Anatomica omnia. The Leyden edition of 1741 contains also Nova Institutionum medicarum Idea ; Epistolæ anatomicæ ; De Sedibus et Causis Morborum, &c. | His complete works were published, before his death, by his pupil Larber (Morgagni Opera omma, 1765). He died in 1771. His name has been given to several parts of the body discovered by him.

Morgan, lady (an authoress first known in the literary world by the name of Miss Owenson), is the daughter of Mr.Owenson. of the theatre royal, Dublin. Under her maiden name she published the following popular works:—St. Clair, or Heiress of Desmond, a Novel (2 vols.); the Novice of St. Dominic (4 vols., 1805); the Wild Irish Girl (3 vols.); Patriotic Sketches of Ireland (2 vols.); and Woman, or Ida of Athens (4 vols., 1809). She married doctor Morgan, a young physician, who obtained the honor of knighthood. Since her marriage she has produced the novels of the Missionary, an Italian Tale (3 vols.); O'Donnel, a National Tale; and Florence M'Carthy, a National Irish Tale (4 vols.). Two other works, of a different description, increased her fame and fortune. Tho first of these-France, by Lady Morgan 2 vols., 8vo., 1817)—was perhaps the best account which had then been written of the modern state of France. Its success induced the bookseller to give her a large price for her Italy (2 vols., 4to, 1823), ; which had an extensive sale. These which had an extensive sale. These works were prohibited in Sardinia, Rome, Austria, and she was forbidden to enter. the Austrian territories. She afterwards resided in Dublin, and in 1824 published the Life and Times of Sulvator Rosa. which may be considered as her feeblest. production. Her Book of the Boudoire (1829) contains some amusing particulars. and ancedotes concerning herself, as well

as other entertaining matter. Having visited France in 1829, the result of her observations and reflections was given in her France in 1830, which contains a lively picture of the moral and political state of the country just before the great emption of that year. Among her more recent productions are also the O'Briens and O'Flahertys, a National Tale, and Absentecism.

Morary, Daniel, one of the most distinguished officers of the American army in the revolutionary war, was born in New Jersey, whence he removed to Virginia in the year 1755. Being extremely undigrat, he was compelled to drive a wagon for subsistence. By a rigid economy he amassed money to purchase a team, and continued in this humble occupation until the time of Braddock's expedition, in which he enlisted. During the campaign he received a wound in the face, which left an indebble sear. On a charge of contumacy to a British officer, he was punished with five hundred lashes,-a circumstance which is mentioned because, in the revolutionary war, many English officers fell into his hands, whom he treated with invariable mildness and generosity. Between the ages of 20 and 30, Worgin was much addicted to gambling and pugilistic combats. He retained the bold spirit which he manifested in this migreal, but, in the later stages of his life, was ashungd of his early excesses. Having returned home after Braddock's defeat, he resumed his old employment as a wagoner, and his habits of frugality. He acquired thus means to purchase a small piece of ground upon which he erected a house. At the commencement of the revolutionary war, he was appointed to the command of a troop of horse raised in his neighborhood. With this he marched to join the American army at Boston, whence he was detached by Washington, in the memorable expedition against Quebec. No officer distinguished himself on this occasion more than Morgan. When Arnold was wounded, in the assault on the city, and carried from the field, Morgan took the lead. Seconded by his gullant followers, he passed the, first barrier, and mounted the seconds but the death of Montgomery, the strength of the enemy, the bluding tempest which raged at the moment, rendered all exertion vain. Morgan was among the prisoners of war, and indignantly rejected an offer of the rank and pay of a colonel in the British service. On the exchange of prisoners which took place soon after, he rejoined

ed to the command of a rifle corps, with which he was detached to the assistance of general Gates. He contributed materially to the glorious triumph obtained over general Burgoyne. After his return to the main army, he was constantly cm-ployed by Washington in the most peril-ous enterprises, and always acquitted himself admirably. In 17t0, owing to the decline of his health, he retired into private life; but, being appointed a brigadier-general by brevet, he consented to accompany general Gates when the latter was called to the chief command of the army, in the south. Morgan did not, however, arrive until after the disastrons affair of Camden. At the Cowpens, he commanded the American force by which Tarleton was routed. The details and effects of this brilliant victory cannot be given here. Congress manifested their sense of its importance by presenting a gold medal to Morgan, a sword to brigadier Pickens, and a Silver medal to lieutenant-colonels Howard and Washington. General Greene was now appointed to supersede general Gates in the command of the army of the south. After the battle of Cowpens, Morgan differed in opinion with Greene, as to the route to be taken in his retreat, He yielded to the wishes of the commander; but, when the two divisions of the army united at Guilford court-house, he left the service in disgust, and devoted hunself to the improvement of his furm. This is the common explanation of his secession; but we ought here to note that judge Johnson, ic his Life of Major-Genetal Greene, contradicts it. He says "the real cause of Morgan's disappearing from the stage of the war was unquestionably, a serious indisposition-ague and rheumatism, contracted during the severe winter campaign. His health had been considerably affected before he crossed the Catawha; but, in the hurried march from that river to the Yadkin, it rained incessantly, and, before the army reached Guilford, he could no longer withstand the combined attacks of those racking diseases. He was prevented by nothing but continued indisposition from rejoining the army." He reappeared in the public service when sent, at the head of the Virginia militia, against the Pennsylvania insurgents, in what is called the whiskey insurrection. He then served one term in congress, as representative of the district of Frederic, in Virginia. He died at Winchester, in that state, in the year 1799. Morgan was a man of much natural abilthe American standard, and was appoint- ity, but wanting in education and refinement. His stature was lofty, and his frame for carrying him off, have, in a great measzealous Christian.

Morgan, William. The singular fate of this individual has given great notoriety to his name. He was a native of Virginia, but, for some time previous to the autumn of 1826, had been an inhabitant of the western part of the state of New York. As early as the month of Aligust of that year, it became generally known that he was engaged in preparing for the press a work by which the obligations and. secret proceedings of freemasonry were to be divulged. Some members of the fraternity in and about Batavia, where Morgan then resided, were alarmed, and eventually became much excited, on account of the contemplated publication. Remonstrances and inducements to dissuade him from such a course of conduct, were resorted to by his brother masons, but in vain. At length a conspiracy was formed, including in its origin, or at its subsequent , stages, no inconsiderable number of persous, for the purpose of separating Morgan from those who had engaged him to undertake, and were encouraging him to go on with the development of the secrets of the masonic order. Given up to an unaccountable infatuation, they commenced the execution of this ill-advised project by taking him; on the 10th or 11th of September, 1826, from Batavia, under the pretence of a charge for petit larceny, to Canandaigna. The criminal charge was abandoned, and a civil suit instituted gainst him. A judgment for a small amount was recovered, and he was committed, by virtue of an execution issued thereon, to the jail of Ontario county. . On the evening of the 12th of September he was discharged by the interference of some of the conspirators, and, as he passed out of the door of the jail, was seized by them, taken a small distance, and then forcibly put into a carriage. He was carried, in the course of that night, on to the Ridge road, about two miles beyond the village of Rochester. During the next day. distance of 70 or 80 miles, and from thence to Fort Niagara; at the mouth of the Niagara river. Soon after his abduction, it was ascertained, to a reasonable degree of certainty, that he had been taken to · Fort Niagara; but for some time an almost impenetrable obscurity seemed to shroud the events subsequent to his arrival at that The disclosures which were at length made before grand-juries, and on the various trials of those who were indicted

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adapted to the severest toils. He died a ure, removed the veil which hid these events, and established, in a satisfactory manner, that his life was in a few days brought to a tragical end. He was secured in the magazine of that fort, which was at that time unoccupied by any of the forces of the U. States. Soon after he was brought to tliat place, those who had him in charge were much embarrassed to devise what to do with him. Consultations were held on the subject, and some of the party proposed to take his life, which they alleged he had forfeited by violating the obligations he had voluntarily taken on himself when he became connected with the masonic fraternity, or in the subsequent stages of his advancement to its higher distinctions; but others protested against such a violent and wicked When all the circumstances are considered, and the evidence given on this point is well weighed, they seem to be sufficient to bring any candid mind to the conclusion that this proposition was finally adopted and executed; but it is not fully known who adopted it, or by whose hands it was executed. The number of those directly concerned in the final catastrophe is believed to be small; it is also believed: that those who first formed the conspiracy to carry him off, and those who subsequently became connected with it by lending their aid in carrying him to Fort Niagara, did not intend or anticipate the termination to which this affair was brought. Indeed, it is reasonable to conclude that the design upon his life was suggested by the embarrassment which those felt who were called on to make a further disposition of him after his arrival at Fort Niag-This outrage upon the liberty of a fellow-citizen, and contempt of the laws of the land, from the protection of which this citizen had been violently taken, roused the indignation of the community in the midst of which the offence was committed. They demanded their fellow-citizen: he was not produced, nor could he be They anxiously sought to know found. and night, he was taken to Lewiston, a his fate, but they long sought in vain. The public excitement increased in intenseness, and spread over a wider region of coun-Those who partook of it largely did not stop to discriminate. The single circurnstance that an individual had a high stunding in the masonic order, was sufficient evidence, to their minds, of his participation in the crime. Finally, the whole fraternity were regarded as in some man-ner implicated in the transaction. It is believed by some, and perhaps alleged by

more, to have been the natural consequence of the discipline of the masonic institution. A current of feeling so strong and so deep was soon turned to political , parposes. An anti-masonic party was iminediately formed; it predominates in several of the counties in the western part of New York, and has converts in every part of the state, and in many other states in the This party is numerous, active, well-brganized, and every where seeking political ascendency, not only in the sevord states, but in the general government.

Morgana. (See Fala Morgana.) Morganatic Marriage' (malrimonium ad morganaticam, matrimonium ad legem Salican), from the Cothic word morgjan (to shorten, limit), also sometimes called, in Germany, a *left-handed marriage*, is one in which it is stipulated that the wife (who is inferior, in birth, to the husband) and her children shall not enjoy the privileges of his rank, nor inherit his possessions. The king of Prussia contracted an alliance **'of** this kind with the present princess of Liegnitz. The common law of Germany permits such marriages only to the high nobility. They are often erroneously regarded as somewhat illegal, which is not the case, though-serious objections can be

raised against the principle.

Mongarren. On the frontiers of the canton of Schweitz, lies lake Ægeri, a league in length, very deep, and has numerous lish of every description. On the eastern border of the lake is the mountain of Morgarten, of which the greatest part belongs to the canton of Zug. Here the forest towns, Schweitz, Uri and Unterwalden, laid the basis of the Swiss confederation, by the victory gained Dec. 6, 1315, over Leopold, arch-duke of Ausunited for ten years, declared themselves in favor of the emperor Louis of Bayaria, in consequence of their hatred to Austria. Frederic of Austria, therefore, the rival of Louis, placed them under the ban, and 'the bishop of Constance excommunicated them. The emperor Louis, and the archbishop of Mentz, however, absolved them from both sentences. Frederic then raised an army of 20,000 men, which, under the command of his brother, Leopold of Austria, advanced against the forest towns, whose power was limited to 1600 brave men. This little body occupied a narrow pass, between mount Morgarten and the lake Ægeri: part of them were stationed on the side of the steep mountair. Leopold's army had hardly penetrated the narrow pass, when the Swiss rolled heavy masses of stone upon them, which threw the cavalry into disorder, wounded and killed many of the enemy, and dispersed them. Leopold escaped. The three cantons now formed a perpetual league, Dec. 8, 1315, at Brunnen. By the year 1513, ten cantons had successively joined the confederacy.

MORGENSTERN. (See Buille-Are.)

Mozenez, Raphael, born at Naples, in 1758, is justly reckoned among the first-European engravers. He received his early instructions from his father, and was afterwards placed as a pupil under the celebrated Volpato, whom he assisted in engraving the famous pictures of Raphael, in the galleries of the Vatican. The print which represents the miracle of Bolsena is inscribed with his name. After having married the daughter of Volpato, he was invited to Florence, in 1782, to engrave the master-pieces of the Florentine gal-Of the works which he produced on this occasion, his copy of Raphael's Madonna della seggiola is considered the most excellent. The reputation which he acquired by his labors on the Florentine grliery, induced the artists of Florence to recommend to the grand-duke to empley him in engraving Leonardo da Vinci's noble composition of the Last Supper, which is painted on the wall of the refectory, in the Dominicans' convent, at Mikm. This picture is much dilapidated, and the drawing which was made from it for Morghen was by no means worthy of the original; so that, though the engraver has given to the world an admirable print, he has failed in giving a correct idea of the style and nicrit of Leo-In 1803, he was chosen an associate of the French institute; and, in 1812, tria. (See Switzerland.) These cantons, the was invited to Paris, by Napoleon, who treated him with the most flattering kind-, Among the most remarkable of the other numerous works of Morghen, may be noticed the Transfiguration, from Ruphael; a Magdalen, from Murillo; a head of the Savior, from Da Vinci; the Car of . Aurora, from Guido; the Hours, from Poussin; the Prize of Diana, from Domenichino; the Monument of Clement XIII, from Canova; Theseus vanquishing the Minotaur; portraits of Dante, Petrarca, Ariosto, Tasso, &c. A complete list of his works, to the number of about 200, was published by Palmerini, at Florence, in 1810.

Morgue, La; a place in Paris, where the bodies of unknown persons, who have. perished by accident, murder or suicide, are exposed, that they may be recognised

by their friends. If not claimed after remaining three days, they are buried. The clothes of the deceased are hung by 'measures' were adopted, by the patriots, the side of the body, which is placed under a glass case, on a slab of black marble.

Moкног, Daniel George, a learned phil-ological writer, born at Wismar, in the duchy of Mecklenburg, in 1639, was educated at Stettin and Rostock, where he studied jurisprudence, but, in 1660, was chosen professor of poetry at the latter university. Previously to engaging in the duties of his office, he travelled, for two years, in Holland and England. In 1665, he became professor of poetry and rhetoric at Kiel. He visited England and "Holland a second time in 1670, when he contracted an intimacy with Boyle, and with several of the Dutch literati. In 1673, he obtained the chair of history, at Kiel, and, in 1680, was appointed librarian to the university. He died in 1691, at Pyrmont, whither he had gone for the benefit of his health. He was the author of a valuable work, entitled Polyhistor Litterarius, Philosophicus, et Practicus, part of which he published at Lübeck, in 1688, and it was reprinted, with additions, in 1695; but the most complete edition is that of 1747 (2 vols., 4to.). Morhof was also the author of a tract De pura Dictione Latina, and other works.

Monielo, don Pablo, a Spanish officer, a man of courage and talent, but who has stained his character by his conduct in the new world, was originally a serjeant of artillery, in the marines. During the war corried on by the Spaniards against Napoleon, he raised a guerilla corps, at the head of which he soon acquired repu-His first exploit was his obstinate defence of the bridge Puente del Conde. in Estremadura, and this was soon succeeded by the capture of Vigo, in Galicia, in which he cooperated with the British. On the latter occasion, he acted as commander-in-chief of the Spaniards, and was desired, by his men, to assume the title of " colonel, the French governor having hesitated to capitulate to an officer of inferior rank. His colonelcy was confirmed to him by the central junta. He was pro-moted to be a general in the course of the war, and distinguished himself on several occasions, particularly at the battles of Vittoria and the Nivelle. His activity was such that he gained the appellation of Spanish government resolved to make a stremuous effort to recover its authority over the South American colonies, Morillo was placed at the head of the expedition.

consisting of 12,000 men. While Morillo was preparing to embark his troops, to bring them and their leader over to the popular cause. Morillo is said to have, at first, undertaken to play the part which was afterwards so gloriously played by Riego and Quiroga, but to have soon repented of his acquiescence, and betrayed the plan to the government. then set sail for the new world. Morillo began by the siege of Carthagena, and entered that city Dec. 6, 1815, after hav ing experienced a glorious resistance from the inadequate and exhausted garrison, which at last succeeded in opening a passage through the blockading squadron. While the siege was carrying on, he rendered himself hateful to the Venezuelans, by the confiscation of property, and the cruelties which he committed. After the fall of Carthagena, he marched into New Granada, and reduced the province: and here, again, he had recourse to the system of bloodshed and pillage. For a while the spirit of the Americans seemed to be extinct, but, in 1817, it was again roused by Bolivar (q. v.), Pácz (q. v.), Arismendi, and other generals, and Morillo was defeated in several engagements. In the campaign of 1818, the two parties expericheed ahernate success, though, on the whole, the balance was in favor of the independents; but, in 1819, the scale was decidedly turned against the Spanish general. He was routed in various actions, and was entirely driven from New Granada, and from a great part of the Caracas. On intelligence being received of the revolution which had taken place in Spain, in 1820, an armistice was concluded betwicen the royalist and republican generals; and, towards the close of that year, Motillo returned to Spain, leaving the command in the hands of general La Torre. (See Colombia.) He joined the court party, and was probably one of the authors of the insurrection of the guards, in July, 1822. Finding this unsuccessful, he joined the patriots, and escaped being shot by one of the soldiers only through the interposition of Riego. In 1823, Morillo was made captain-general of Asturias and Galicia, and appointed Aniroga, Campilla, the Empecinado (sco Diez), to. commands under him. When the cortes such that he gained the appellation of declared the royal power suspended at Wellington's cossack. In 1815, when the Seville and Cadiz, he expressed his disapprobation of the measure in a proclamation, and, at the same time, agreed to an armistice with the French general Bourck. He was obliged, though reluctantly, to

acknowledge the regency, and delivered up Galicia to the French without a blow, In the beginning of 1824, he retired to

France. (See Spain.)

Morton; a kind of open helmet, without visor or beaver, somewhat resembling a hat, which was commonly worn by the arquebussiers and musketeers.

Morisco. (See Moors.) MORLACHIANS. (See Dalmutia.)

Morland, George, an eminent painter of rusic scenery and low life, was born in London, in 1764. He acquired a great degree of skill as a faithful copier of nature, and, in the early part of his career, confined himself to the delineation of picturesque landscape; but, having contracted irregular habits, and a partiality for the bottle and low company, he forsook the woods and fields for the alehouse; and stage-coachmen, postilions and drovers drinking, became the favorite subjects of his pencil. Some of his best pieces exhibit farm-yards and stables, with dogs, horses, pigs and cattle; or scenes at the door of the village ale-house, designed with all the truth and feeling which communicate a charm to the meanest objects, and proclaims the genius of the artisi-Many of his pictures were painted in the midst of embarrassments occasioned by his imprudence, and some of them while under confinement for debts which he had contracted. He fell a victim to intemperance, dying while in confinement, Oct. 20, 1801.

Mornay, Philip de (sieur du Plessis Morlay), a distinguished French nobleman of the 16th century, born in 1549, at Buhi, in Normandy, was educated by his mother in the tenets of the reformed re-In 1567, he entered the army, and bore his part in the civil wars, which, at that period, distracted France; but, after the massacre of St. Bartholomew's, he left his country, and visited Switzerland, Germany, Italy, and a great part of the north of Europe, including England, 'where Elizabeth received him with distinguished marks of favor, as an able supporter of the Protestant cause. When, in 1576, Henry of Navarre (afterwards Henry IV, of Krance) openly placed himself at the head of the Huguenot party, De Mornay ond more took up arms, and continued in the service of this monarch during the whole struggle against the league; but when, in 1503, Henry reconciled himself to the church of Rome, Do Mornay sent in his resignation, and, retiring from court, devoted the remainder of his life to literary pursuits, and to advocating, with

his pen, the cause of that religion which he had defended with his sword. first work-a Treatise on the Churchappeared in 1578, and was followed, the succeeding year, by another, on the Truth of Christianity. His most able, as well as most celebrated work, was a Treatise on the Sacrament of the Lord's Supper (1598), in which he vindicated the Calvinistic doctrine, as opposed to that of transubstantiation; and cardinal Du Perron, two years after its publication, entering thto a personal dispute with the author on the subject, in a conference at Fontainebleau, the latter maintained his argument with so much ability, as to acquire, from those of his own persuasion, the appellation of the Protestant pope. Seven years afterwards, he printed a history of the papacy, under the title of the Mystery of Iniquity. This estimable man, whose learning, constancy, and unblemished morals, acquired the respect even of his opponents, died in 1623, at his chateau of La Forest, in Poictou, whither he had retired, in 1631, after having been deprived of his. government of Saumur, by Louis XIII. Mis Mem. et Corresp. pour servir à l'Histoire de la Reformation et des Guerres civiles, 1571—1623 (most complete edition, Paris, 1825, 15 vols., with a sketch of his life). is a valuable contribution to file history of the time. Voltaire has erected to him a fine monument in the Henriade.

Morocco (Marokos, or Mara h-part of ancient Mauretania); a large empire in the north-west part of Africa, bounded N. by the straits of Gibraltar and the Mediterranean, E. by Algiers, S. Ly Sahara, and W. by the Atlantic; about lon. 1º to 10° W.; lat. 29° to 36° N.; . square miles, according to Graberg, 200,000. The limits and divisions are not well ascertained. It is divided into. two parts by the great chain of the Atlas, which traverses it first from E. to W., and then from N. to S., leaving between itself and the sea a plain of from 50 to 100 miles in breadth. This plain, which is 400 or 500 miles in length, in an oblique line, includes all the populous and fertile part, comprising Morocco Proper and Fez. The division beyond the Atlas comprises Draha, Tafilet, Sugulmessa, &c. The population is variously estimated; by Graberg, at 5,000,000; by Chenier and Hoest, at 5,000,000 or 6,000,000; and by Jackson, at 14,886,000: population of the cities, according to Jackson, 995,000; of Morocco and Fez, N. and W. of Atlas, 10,300,000; the Brebers, 3,000,000; Tafilet, S. E. of Atlas, 650,000. This state-

ment is said to have been taken from the. 1790, a war broke out between his sons, imperial register, but is probably a great exaggeration. The chief towns are Morocco, the capital, Fez, Mequinez, Mogadore, the principal scaport, Tarudant, Rabat, Sallec, Tangiers, Saffet and Tetuan. The government is a most barbarous despotism, under a chief, styled the sultan of Fez and Morocco, who is absolute master of the lives and fortunes of his subjects. In many parts of the country, his power is very precarious, and his superiority is acknowledged, by many tribes, merely by the payment of tribute. The religion is Mohammedan. The population consists of Moors, who live in the towns, and carry on trade; Arabs, who dwell in the country, in villages; Brebers, the oldest inhabitants of the land (see Barbary States); Negroes, who live in a state of freedom. dispersed over the country; Jews, in a great measure the descendants of those who were driven from Spain, by Ferdinand the Catholic; they are numerous, but despised and oppressed; renegado Jews and Christians, principally Spaniards; Christians, who are merchants, artisans and slaves. The grand physical characteristic of the country is the great chain of the Atlas, the summits of which are covered with perpetual snow. The country between this chain and the ocean is watered by numerous streams from the mountains; is exuberantly fertile, producing grain, almonds, dates, and various other fruits. Silk and wool are plentiful. The leather called morocco (q.y.) is manufactered from the skins of the goats of Tafilet. Morocco has mines of iron, tin, copper in abundance, antimony (more carefully worked than the others), and mineral salt in great plenty. (See Barbary States.) The early history is given in the article Moors. In 1557, Mehemed, a sherif, or one who claimed to be descended from the prophet, obtained possession of the throne of the empire, which is still occupied by his descendants. Frequent and bloody civil wars have been carried on · by the royal princes, who have been, for the most part, distinguished only for their cruel despotism. The most ferocious of these tyrams was Muley Ismael, who died, after a long reign, in 1727. He was succeeded by his son Maloy Abdallah, who ascentled the throne after a long struggle with his brothers. That prince was followed, in the government, by his son Muley Sidi Mohammed (1757), who carried on war against France, Spain and Portugal, but concluded treaties of peace with the other powers. On his death, in

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on the subject of the succession. Muley Soliman finally obtained possession of the throne, and, on the invasion of Egypt by the French, sent a contingent to the Turkish army. A treaty with the U. States, which had been concluded with Sidi Mohammed, in 1786, was ratified by Muley Soliman in 1795. By this treaty, it was stipulated that prisoners made in war should not become slaves. On the death of Muley Soliman, in 1822, his nephew, Muley Abderrahman, the present sultan, succeeded him. He has been principally employed, since his accession, in endeavoring to restore domestic tranquillity, and reduce the rebellious tribes of the interior. He is bigoted, indolent and luxurious, but, as he is not remarkable for any extreme tyranny or cruelty, he is considered a good monarch. The last accounts from Morocco (1831) describe the county as torn by internal dissensions, the Breber tribes of the mountains having gained some important advantages over the imperial forces. But this unquiet state is the usual condition of the empire. Besides the works referred to in the article Barbary, the render may consult Jackson's Morocco, and Brooke's Travels in Spain and Morocco (London, 1831).

Morocco (called, by the natives, Marasch); city, and capital of the kingdom of Morocco; lon. 7º 15/ W.; lat. 31° 37/ N.; population, according to Chenier, about 30,000; some reduce it to 20,000; others state it at 40,000 or 50,000; Jackson raises it to 270,000. It is said to contain 2000 Jewish families. It is situated about 120 miles from the sea, in a pleasant plain, planted with palm trees. It was founded in 1052 A. D., and, in the following century, under the reign of Ali Ben Yusuf, it was in its highest prosperity, and has been represented as containing a population of 1,000,000. This is probably very much exaggerated; but the circuit of its walls appears still calculated for at least 300,000. It is now very much depopulated, covered with ruins of houses and gardens; the streets are filled with the rubbish of decayed buildings; and, the habitations, being old, swarm with vermin. The temples, sanctuaries and mosques are still numerous, and some of the latter lofty and splendid. The emperor's palace is of hown stone, ornamented with marble. The air is clear and healthy, and the city is well supplied with excellent water from the river Tensift, which flows at a short distance.

· Morocco, or Maroquin; a fine kind

of leather, prepared from the skin of the goat, originally brought from the Levant and the Barbary States, but now manufactured in most other countries. It derives its name from the empire of Morocco, where it was probably invented, or first became known to Europeans. The colors most commonly communicated to it are red (by cochineal) and yellow (by the Avignon or yellow berries).

Morosini, Francesco, born 1618, was a gallant soldier, who, about the middle of the seventeenth century, in his capacity of governor of Candia, defended that island, with 30,000 men, against a Turkish force of four times that amount. Compelled at length to surrender, he obtained terms which were better observed by the Ottoman conquerors than was their wont; and although, on his return to Venice, he suffered a temporary disgrace, yet he soon recovered his credit with the government, and was appointed to the office of procurator of St. Mark's. Sailing, afterwards, against his former antagonists, the Turks, he attacked their fleet, not far from the Dardanelles, and totally defeated it, with great loss both of ships and men. Re-\ turning in triumph to Venice, he continued to enjoy great popularity. In 1688, he was elected doge, and survived his elevation about six years, dying at Napoli di Romania, in 1694.

Moroxylic Acid; the name applied, by Klaproth, to an acid not yet fully examined, and which was found in combination with lime, forming a blackish-brown coating, on the trunk of a white mulberry tree, at Palermo. Its taste and other qualities approached nearest to those

possessed by the succinic acid.

Morrieus (from popping form, because he assumes a variety of forms), in the Greek and Roman mythology; a servant of Somnus, or Sleep. He lived in a dark, silent cave, impenetrable by the rays of the sun, in Cimmeria. He is often confounded with the god of sleep, but is more 1 * strictly the god of dreams, and was often sent out to make known to mortals the will of the gods. He appeared only in a human form, his brother Phobeter (the Terrifier) being employed to assume the share of beasts, and Phantasos that of inanimate objects. Morpheus is represented as a handsome youth, crowned with poppies, and holding in his hand a horn of plenty, from which he scatters various figures.

Morrніл; a new vegetable alkali, extracted from opium, of which it constitutes the pareotic principle. It is obtained pure the following process: A con-

with a small quantity of common magnesia for a quarter of an hour: a considerable quantity of a grayish deposit falls: this is washed on a filter with cold water, . and, when dry, digested in weak alcohol for some time, at a temperature beneath ebullition. In this way, very little morphia, but a great quantity of coloring matter, is separated. The matter is then drained on a filter, washed with a little cold alcohol, and atterwards boiled with. a large quantity of highly rectified alco-This liquid, being filtered while hot, on cooling, deposits the morphia in crystals, and very little colored. The solution in alcohol'and crystallization being repeated two or three times, colorless morphia is obtained. It crystallizes in double four-sided pyramids, whose bases are squares or rectangles; sometimes also in prisms with trapezoidal bases. It dissolves in eighty-two times its weight of boiling water, and the solution, on cooling, deposits regular and colorless crystals. It is soluble in thirty-six times its weight of boiling alcohol, and in fortytwo times its weight of cold alcohol. It. dissolves in eight times its weight of sulphuric ether. All these solutions change . the infusion of brazil wood to violet, and the tineture of rhubarb to brown. According to M. Bussy, morphia consists of

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Carbon,								٠.		69.0
Hydrogen,										6.5
Azote,					٠.	į		٠		4.5
Oxygen,		,								20.0
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With acids, it forms a class of salts in like manner as do the other vegetable alkalis. Sulphate of morphia crystallizes in prisms, which dissolve in twice their weight of distilled water. They are composed of

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Acid,	٠	٠	٠	•	٠.	•	•	•	٠	•	٠	٠				24	
Morphia,								٠								40	
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Nitrate of morphia yields needle-formed crystals in stars, which are soluble in one and a half times their weight of distilled water. Muriate of morphia is soluble in ten and a half times its weight of distilled water. The acetate crystallizes in needles, the tartrate in prisms, and the carbonate in short prisms. Tincture of galls is said to be a good test of morphia, free or combined. Subacetate of lead throws down all the animal matters with which acetate of ammonia may come to

be associated in the stomach, without acting on that vegetable salt. The excess of lead may be separated from the clear liquor by a few bubbles of sulphureted hydrogen; and the morphia may then be' recognised by crystallization in vacuo, and by the red color which nitric acid inparts to it. No morphia is found in the blood of animals killed with it. Morphia acts with great energy on the animal economy. A grain and a half, taken at three different times, produced such violent symptoms upon three young men of seventeen years of age, that Serturner was alarmed lest the consequences should have proved fatal.

Morphology (from pappy, form, and λογος, doctrine); the science which treats of the formation and constant change of organic bodies. Gothe, the German poet, first formed the word, and treated the subject as a separate branch of natural history. In his Beiträge zur Naturwissenschaft überhaupt und zur Morphologie insbesondere (Tübingen, 1817 et seq.), he directs attention to the uninterrupted change of all bodies, particularly organic bodies, and the fact of their consisting, even when they appear as single individuals, of parts which contain the germs of individual life within them. He shows · this to be the case with plants from their propagation by eyes and cuttings. The growth from seed appears to him quite, a similar phenomenon. Among animals, he adduces the instance of the infusbria. The polypes and some reptiles whose parts, on division, form entire animals.

night likewise be mentioned.

MORRIS, Lewis, one of the signers of the American Declaration of Indepen-dence, was born in the state of New York, in the year 1726. He was proprietor of the large manor of Morrisania, in the county of Westchester. He was educated at Yale college, of which he received the honors. On his return home, he devoted himself to agriculture. When the dissensions between the inother country began, he was in a most fortunate situation: with an ample estate, a fine family, an excellent constitution, literary taste, and general occupations of which he was fond. He renounced at once his domestic comfort; in order to assert the rights of his country. He was elected to the congress of 1775, wherein he served on the most important committees. body assigned to him the arduous task of detaching the western Indians from . the coalition with Great Britain, On this errand, he repaired to Pittsburg, and VOL. IX.

acted with zeal and address. In the beginning of 1776, he resumed his seat in congress, where he was a laborious and very useful member. When he signed the Declaration of Independence, it was at the risk of his beautiful and extensive manor near New York, which was, in fact, soon after laid waste by the enemy. Three of his sons served in the army, with much distinction. He quitted congress in 1777, and was afterwards in the state legislature, and a major-general of militia. Mr. Morris died on his paternal estate, in January, 1798, at the age of seventy-one, possessing inniversal esteem.

Morris, Robert, the chief, financier of the American revolution, was born in Lancashire, England, January, 1733-4, O. S., of respectable parentage. father embarked for America, and caused him to follow at the age of thirteen. He received only an English education, and, before he reached his fifteenth year, was placed in the counting-house of Mr. Charles Willing, at that time one of the first merchants of Philadelphia. Fidelity, diligence and capacity gained him the full confidence and favor of Mr. Willing. after whose death, he was taken into partnership by his son, Thomas Willing, subsequently president of the bank of the United States. This partnership lasted from the year 1754 until 1793,—the long period of thirty-nine years. At the com-mencement of the American revolution, Mr. Morris was more extensively engaged in commerce than any other merchant of No one embraced the Philadelphia. American cause with more zeal and firmness, and few with more influence and risk. He declared himself immediately against the stamp act, signed, without hesitation, the non-importation agreement of 1765, and, in so doing, the house of Willing, and Morris niade a direct and serious sacrifice of trade. In 1775, Mr. Morris was appointed by the legislature of Pennsylvania one of the delegates to the second general congress. He was placed upon every committee of ways and means, and connected with all the . deliberations and arrangements relative to the navy, maritime affairs, and financial interests. Besides aiding his country by his judgment and talents for business, he borrowed money, to a very large amount, on his personal responsibility, for the use of the government. This personal credit, growing out of his reputation for probity, ability and resources, was won-derful, and of incalculable advantage to the American cause. It rarely failed,

when the treasury yielded nothing for the larger than it really was; and he rendered public exigencies. In May, 1777, he was thispersonal credit subservient to the public elected a third time to congress, by the good. He pledged it whenever his official legislature of Pennsylvania, and continued to be the soul of the financial concerns: at particular times, on account of the con-Washington, to whom he was deputed by congress, in the autumn of 1777, conceived the utmost faith in his patriotism and ability, which all the subsequent events of their intimate intercourse and the connexion of Morris with public affairs served to perpetuate. In the year 1780, Mr. Morris established a bank by subscription, of which his share was £10,000, mainly with the object of supplying the army with provisions,—3,000,000 of rations, and 300 hogsheads of run. It continued until the following year, when the bank of North America was founded. His extensive commercial and private correspondence with Great Britain and the continent, furnished him with early and important political information. His constant manifestations of confidence in the issue of the revolutionary struggle inspired many others with the same sentiment. His whole example did incalcu-, lable service. Feb. 20, 1781, he was/appointed superintendent of finance, and, by subsequent resolutions of congress, vested with powers which gave him, in fact, the control of all the public pecuniary interests. This arduous office he admirably discharged until the end of the war. "The whole business of finance," said he, " may be comprised in two short but comprehensive sentences,-it is to raise the public revenue by such modes as may be most easy, and most equal to the people, and to expend it in the most frugal, fair and honest manner." The condition of the treasury, when he undertook it, was nearly as bad as possible. Upon , its improvement depended the preservation of the military force. The establishment of the bank of North America was one of his first and most beneficial measures. The notes of the institution were declared by congress receivable as gold and silver for the payment of all duties and. taxes in each of the U. States. Morris furnished the plan, and published it, with a cogent appeal to the patriotism of all A contemporary American citizens. writer has remarked that "the sudden restoration of public and private credit, which took place on the establishment of the bank, was an event as extraordinary in the progress of the revolution." At this time, the private fortune of Mr. Morris was ample, but supposed to be much

resources were inadequate. Ilis advances federacy or of individual, states, were enormous. His general situation, and the impossibility of relieving all the wants which were referred to his department, exposed him to slanderous charges and harsh suspicions, which have in no in-. stance withstood a fair inquiry. The necessary supplies of every thing required for Washington's expedition against Corn-, wallis were obtained chiefly by means of . Mr. Morris's credit. He issued his own notes to the amount of one million four hundred thousand dollars, which were finally all paid. These were the sinews of war, without which Cornwallis would not have been captured. The history of the difficulties which he had to evade or overcome, and the expedients to which he resorted in the course of his financial administration, would fill a volume. A number of them are related, with interesting details, in the sketch of his career, included in the Biography of the Signers of the Declaration of Independence, They are also stated, in the most instructive and impressive manner, in that part of his able and voluminous correspondence, which has been given to the world. Jan. 21, 1783, Mr. Morris announced to the president of congress his intention to resign the office of superintendent of finance. Nothing but the public danger could have induced him to accept it, and, the danger , being past, he felt himself at liberty to escape from excessive toil and manifold liaoility. He consented, however, to serve until the first of May. On the 2d of May, after repeated conferences with a committee of congress, he was prevailed upon to continue in office, and he did not finally leave it until November, 1784. At his request, in May of that year, congress appointed a board of treasury commissioners, who were to cooperate with and succeed him in the management of the finances. In rendering an account of his stewardship, he published an able address to the inhabitants of the U. States, containing excellent counsel. In September, 1781, congress had resolved that, "until an agent of marine should be appointed, all the duties, powers and authority assigned to that office should devolve on, and be executed by the superintendent of finance," The additional burden was irksome to Mr. Morris. No agent was appointed, and he was thus obliged to administer the

affairs of the navy, until the close of the year 1784. His expansive faculties, his habits of order, his energy and rigid justice in the transaction of business, enabled him to acquit himself creditably in this sphere. In 1786, Mr. Morris consented to be elected into the assembly of Pennsylvania, in order to obtain the renewal of the charter of the bank of North America. Party spirit prevailed over his logic and eloquence; but the exertions of the friends of the institution were, in the succeeding legislature, crowned with success. In 1786, he was elected a member of the convention which framed the federal constitution. No man had more often and severely felt the want of an efficient government. He had incessantly asked for a stronger bond, or instrument, than the old confederation, for "a firm, wise, manly system of federal government;" and he stronuously cooperated in devising and recommending the present. In 1788, the general assembly of Pennsylvania appointed him to represent the state in the first senate of the U. States, which assembled at New York. As a member of that body, he distinguished himself by wise counsels, and particularly by an irresistible speech for the repeal of the tender laws. He was a fluent, correct, and impressive orator; he wrote with ease and terseness; his fund of political knowledge could not but be ample; his acquaintance with the affairs of the world exceeded, in extent and diversity, that of any of his fellow patriots, Franklin excepted; his conversation was therefore replete with interest and instruction. When the federal government was organized, Washington offered him the post of secretary of the treasury, which he declined; and, being requested to designate a person for it, he named general Hamilton,-a most happy though not an expected choice. At the conclusion of the war, he was among the first who engaged in the East India and China trade. In the spring of 1784, he despatched the ship Empress of China, captain Green, from New York to Canton, being the first American vessel that ever appeared in that port. He also made the first attempt to effect what is termed anjout of season passage to China. This passage is effected by going round the south cape of New Holland, thus avoiding the periodical winds prevalent at certain periods in the China sea. In prosecution of this object, the ship Alliance, captain Read, equipped with ten twelvepounders, and sixty-five men, sailed from the Delawarc, June 20, 1787, and arrived

in safety, Dec. 22, at Canton, where considerable inquiries, were made by the European commanders respecting the route that had been taken, as it was wholly a novel thing for a vessel to arrive at that spason of the year. As no ship had ever before made a similar passage, great astonishment was manifested; and the fords of the admiralty subsequently applied to Mr. Morris for information with regard to the track of the ship. It is said that her probable route was, previous to her de-parture, marked out by Mr. Morris, with the assistance of Mr. Gouverneur Morris. In his old age, Mr. Morris embarked in vast land speculations, which proved tatal to his fortune. The man to whose financial operations the Americans were said to owe as much as to the negotiations of Franklin, or even the arms of Washington, passed the latter years of his life in prison, confined for debt. He sunk into the tomb on the 8th of May, 1806. Mr. Morris was of large frame, with a fine, open, bland countenance, and simple manners. Until the period of his impoverishment, his house was a scene of the most liberal hospitality. It was open, for nearly half a century, to all the strangers of good society who visited Philadelphia. He was temperate in food, but fond of convivial meetings. No one parted with his money more freely for public or private purposes of a meritorious nature.

Morris, Gouverneur, an eminent American statesman and orator, was born at Morrisania, near the city of New York, ... January 31, 1752. He was educated at King's college in that city, where he was graduated bachelor of arts in May, 1768. Immediately after he entered the office of William Smith (the historian of the colony), as a student of law. In 1771, he was licensed to practise law. His proficiency in all his studies was remarkable. He acquired early much reputation as a man of brilliant talents and various promise. His person, address, manners, elecution, were of a superior order. In May, 1775, Mr. Morris was chosen a delegate to the provincial congress of New York. In June of that year, he served on a committee, with general Montgomery, to confer with general Washington respecting the manner of his introduction to the congress. He entered with zeal and efficiency into all the questions and proceedings which referred to a vigorous resistance to the pretensions of the mother country. In 1776 (Dec.), he acted as one of the committee for drafting a constitution for the state of New York, which was reported

July, 1777, he served as member of a committee from the New York congress, to repair to the head-quarters of Schuyler's army, to inquire into the causes of the evacuation of Ticonderoga. In October of that year, he joined the continental congress at York, Penusylvania, and, in 1778, wrote the patriotic and successful pamphlet called Observations on the American Revolution, which he published at the beginning of 1779. We must refer to the journals of congress for an account of his many and valuable services, rendered in that body to the revolutionary cause. In July, 1781, he accepted the post of assistant superintendent of finance, as the colleague of Robert Morris. He filled every office to which he was called with characteristic zeal and ability. After the war of the revolution, he embarked, with Robert Morris, in mercantile enterprises. 1785, he published an Address to the Assembly of Pennsylvania on the Abolition of the Bank of North America, in which he cogently argued against that project. In December, 1786, he purchased from his brother the flue betate of Morrisania, and made it his dwelling-place. Here he devoted himself to liberal studies. In the following year, he served with distinction as a member of the convention for framing the constitution of the U. States. December 15, 1788, he sailed for France, where he was occupied in selling lands and pursuing money speculations until March, 1790, when he proceeded to London as private agent of the American government with regard to the conditions of the old-treaty, and the inclination of the British cabinet to form a commercial treaty. In November, 1790, he returned to Paris, having made a tour in Germany. In the interval between this period and the beginning of the year 1792, **he passed several times on public basi**ness between the British and French capitals, February 6, 1792, he received his appointment as minister plenipotentiary to France, and was presented to the king June 3. He held this station with great éclat-until October, 1794. He witnessed the most interesting scenes of the revolution in the capital, and maintained personal intercourse with the conspicuous politicians of the several parties. bundant memorials which he has left of his sojourn in France, and his travels on the European continent, possess the high-篮 特心

. in March, and adopted in April, of that est interest and much historical value. year, after repeated and very able debates. He made extensive journeys after he in which Jay, Morris, and Robert R. Liv-ceased to be minister plenipotentiary, of ingston were the principal speakers. In which he kept a full diary. In the autumn of 1798, Mr. Morris returned to the U. States, to engage in politics, with enhanced . celebrity and a large additional stock of political and literary knowledge. He was universally admitted to be one of the most. accomplished and prominent gentlemen of his country. In 1800, he entered the senate of the U. States, where his cloquence and information made him conspicuous. The two culogies which he pronouncedone on general Washington, and the other at the funeral of general Hamilton-'are specimens of his rhetorical style. His delivery was excellent. Mr. Morris, at an early/period, gave special and sagacious attention to the project of that grand canal by which the state of New York has been so much honored and benefited. the summer of 1810, he examined the canal route to lake Eric. The share which he had in originating and promoting that noble work, is stated in the regular history which has been published of its conception and progress. In May, 1812, he pronounced a public and impressive eulogium on the venerable George Clinton; in the same year, an oration before the New York historical society; in 1814, another on the restoration of the Bourbons in France; in 1816, a discourse before the New York historical society. Mr. Morris died at Morrisania, November 5, 1816. He passed the latter years of his life at Morrisania, exercising an elegant and munificent hospitality, reviewing the studies of his early days, and carrying on a very interesting commerce of letters with statesmen and literati in Europe and America. The activity of his mind, the richness of his fancy, and the copiousness of his eloquent conversation, were the ad- ; miration of all his acquaintance. A sclection from his voluminous and valuable papers, accompanied by a sketch of his life, is about to be published, by Mr. Jared Sparks.

Morris Canal. (See Inland Naviga-

Morris-Dance (from Morisco, Moorish), supposed to have been derived from the Moriscosin Spain, was formerly danced at puppet-shows, May-games, &cc., in England. According to some writers, it was introduced into England in the reign of Edward III, when John of Gaunt returned from Spain; but it was more probably borrowed from France or the Low countries. In the reigns of Henry VII

and VIII, it was a principal feature in the popular festivals. In the May-games of Robin Hood, and the pageant of the Lord , parishes; and in other countries similar of Misrule, morris-dancers formed an im-The more ancient Mayportant part. game and morris consisted of the following characters: Robin Hood, Little John, Friar Tuck, Maid Marian, the queen or lady of the May, the fool, the piper, and several dancers, variously habited. A hobby-horse and a dragon were afterwards added. In the reign of Henry VIII, the morris-dancers were dressed in gilt leather and silver paper, and sometimes in coats of white and spangled fustian. · Bells, to the number of thirty or forty, hung from their garters, and purses were stack in their girdles. (See Donce's Dissertution on the Ancient English Morris-Dance, in vol. ii. of his Illustrations of Shakspeare.)

Morrison, Robert, was sent to China, in 1816, by the Euglish Bible society, for the purpose of acquiring the language of the Chinese, in order to make a correct translation of the Holy Scriptures into it; and he accompanied ford Amherst to Pekin. Canton or Macao was his usual place of abode, and he there tilled the situation of Chinese translator to the East India company. He has published *Horæ Sinicæ*, or Translations from the popular Literature of the Chinese; a Grammar of the Chinese language; an Anglo-Chinese Dictionary, reseveral patts; and a complete version of the New Testament, in eight volumes. In 1820, he crected an Anglo-Chinese college at Malacca, for instruction in English and Chinese literature, and for the propagationof Christianity. In 1826, he returned to England, bringing with him a collection of 10,000 Chinese books, with a store of information relative to the country.

Morse. (See Halrus.) -MORTALITY. The law of mortality is that which determines the proportion of the number of persons who die in any assigned period of life or interval of age, out of a given number who enter upon the .. same interval, and consequently the proportion of those who survive. Tables showing how many out of a great number of children, as 10,000 or 100,000, born alive, die in each year of their age, and consequently how many complete each year, and exhibiting this law through the whole extent of life, are called tables of mortality. The basis of such calculations must be an accurate register of the number of births and deaths, and in of an iron ball fitting it; in England and the case of the latter, at what ages, in a France, by its diameter in inches. In the given district or extent of country. In England, the bills of mortality, or abstracts

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from parish registers, show the numbers who are born and die in the different mortuary registers are kept. The results furnished by such tables are very various, and of great interest. If the registers are kept with sufficient accuracy and minuteness, they would enable us to determine the proportion of deaths, not only at different ages, and in different regions, but at differ ent seasons, in persons of different occu-pations and habits, in towns, or the country, and would afford valuable materials for the science of political economy. Although much more attention has been paid to this subject in recent times, yet the observations have not been so extensive nor so accurate as is desirable. .The first table of mortality was constructed by doctor Halley, from the mortulary registers of Breslau, for five years ending . with 1691, and was inserted in his paper on the subject in the Philosophical Transactions for 1693, with many useful observations on the purposes to which such tables may be applied. In 1742, the celebrated work of Süssmilch on this subject appeared under the title of Diegöttliche Ordming in die Veränderungen des menschlichen Geschlights, &c. (2 vols.), of which a third edition was published in 1775, with a supplementary volume by Baumann. Since that period, many valuable works have been published on the subject, by Deparcieux, Struyck, Birch, Muret, Messance, Price, Krafft, Barton (American Phil. Soc., 1793), &c., and registers have been kept more generally and with greater care. (For different views of the subject, see Innuities, Longevity, Physiology.)

MORTAR is a kind of short cannon, of a large bore, with chambers. Mortars are made of stone, brass, or iron. Their use is to throw hollow shells tilled with powder, which, falling on any building, or into the works of a fortification, burst, and their fragments destroy every thing within reach; also balls of stone, carcasses (q. v.), bags filled with grape shot, &c. They were first used in sieges, for throwing great balls of stone and of red-hot iron, before the invention of shells. On this account, the caliber of a mortar, in Germany, is generally estimated by the weight of a stone of the size of the bomb which it is intended to throw. In Denmark and Russia, on the contrary, the caliber is estimated by the actual weight of an iron ball fitting it; in England and larger states of Europe, 10, 16, 25, 30, 50 and 60 pound morturs, according to

the stone weight measure, are used. In the Prussian army, 7, 10, 25, 50, 75 pound morture are customary. Formerly they were used even of 120 pounds weight; but these are not employed at present, except in particular cases. Their length is generally from 21 to 31 times the diameter of the caliber. The interior parts of a mortar are the chamber, the bore, the The chamber is the mouth, the vent. place where the charge of powder is lodged. The shape of the chamber varies. It is generally conical, more or less fruncated. Land mortars are those used in sieges, and mounted on beds. The brds are made of very solid timber, and placed upon very strong timber frames. The bed is so made as to turn round. Stone mortars serve to throw stones into the enemy's works, when near at hand. Sea mortars are those which are fixed in bomb-vessels, for bombarding places by They are made much longer, and somowhat heavier than land mortars. The use of mortars is thought to be older than that of cannon, for they were employed in the wars of Italy to throw balls of red-hot iron and stones long before the invention of shells. It is generally be-conveyances are evidenced by public lieved that the Germans were the inventors, and that they were used at the siege of Naples, in the reign of Charles VIII, in 1435. It is more certain that shells were thrown out of mortars at the siege of Wachtendonk, in 1588, by the count of Mansfeld. (For further information, see Bomb, and Howitzer.)

MORTAR. (See Cement.) !

Morrance. A mortgage is a conveyance or transfer of real or personal estate to secure the grantee or assignee the payment of some debt, or the performance of some agreement, with a condition or understanding that, in case of the debt being paid, or the agreement being performed, within a certain time, and in the specified - manner, the conveyance or assignment shall be void, and the land, or personal property revert to, or rather, still belong to the mortgager. The English, and so the American mortgage of land is mostly borrowed from the civil law (see Kent's Commentaries, vol. 4, part 4, lecture 57; Brown's Civil Law, vol. i., p. 200), or, at least, many of the rules and incidents of the Roman hypotheca coincide with ours relating to mortgages. The essential characteristic of a mortgage, however, according to the import and definition of the term, must be the same in all countries, vaniely, an agreement that the property conveyed or transferred, whether

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real of personal, shall not absolutely go, and belong to the grantee or assignee, in case the debt intended to be secured shall be paid, or the contract, whatever it may be, intended to be guarantied, shall be performed within the time and terms agreed upon. The rules and incidents of such an hypothecation will therefore have some resemblance under all codes of laws. There is no limitation of the kind of debts . or contracts, the payment or performance of which may be secured by mortgage; for all legal ones may be so guarantied. What will be a sufficient conveyance of the property, whether real or personal, will again depend on the laws of the place. A conveyance of land, for instance, must, in most countries, be made in . . writing, and with certain formalities. So in England, the right of property in a ship must appear by a bill of sale. Whatever these rules are by which the absolute transfer of property is regulated, they will equally apply to a conveyance or assignment by way of hypothecation. As real estate is usually required by the laws to be conveyed by written documents, and according to the laws of most places, these records of the instruments by which they are made, there is no necessity of an open, visible possession of the estate by the granter, that the public may take notice of the grant, for they may find the evidence of it at the office of public record. The case is not the same with personal property, the title to which is usually confirmed and established to the purchaser by a delivery of the article into his possession. In respect to all chattels, of which manual possession and transfer from place to place is practicable, the delivery by the vendor, and actual possession by the purchaser, are very material circumstances in establishing the right of property in the latter. It is, indeed, laid down as a maxim of the English, and also of the American law, that indvables cannot be validly sold or mortgaged without a delivery, actual or constructive, to the purchaser or mortgagee, and a possession by him. But this rule is very much modified and relaxed; not that a delivery to, and possession by the vendee and mortgagee are not considered requisite to establish his title, but a very liberal interpretation has been put upon circumstances showing a constructive delivery and possession. The object and policy of the law is to leave the movable, just as it does land, to be used either by the mortgager or mortgagee, without affecting their mutual rights and obligations

as to the property in the thing, as far as discharge of the debt or obligation intendthis indulgence can be carried without , leading other persons into a misapprehension, and exposing them to fraud and imposition in giving credit to the mortgager, · upon the supposition of his being the absolute owner of the property hypothecated. The various rules and distinctions by which the mortgage of chattels is regulated in this respect, constitute an essential part of the law upon this subject. But, after all, we may lay it down as a general doctrine, that a mortgaged chattel must . be in possession of the mortgagee, in order to render his title secure; and where the mortgager has, by the law, been permitted still to use the thing, it is only in cases where his possession is, in legal construction, that of the mortgagee. The most material consideration relating to mortgages, whether of lands or chattels, is the effect of the non-performance of the condition by the mortgager. This will depend, it is true, in part, upon the terms of the contrac. of hypothecation or mortgage. If it be agreed between the parties, that, in case of non-performance of the condition of the hypothecation, the mortgageo shall sell the thing hypothecated, whether land or goods, and account to the mortgager for the proceeds in satisfaction of the debt or discharge of the obligation intended to be secured, and pay over the surplus if any, this is all that justice or the law can demand; and this is, in effect, what the law aims at where the parties do not make any such stipulation, but, on the contrary, agree, either expressly or impliedly, that, i. case of a non-performance of the condition, the thing mortgaged shall be absolutely and immediately forfeited to the mortgagee, without any right on the part of the mortgager to redeem it, or to call upon the mortgagee to sell it and account with him for the proceeds. Thus, in the common form of mortgaging land, it is conveyed to the mortgagee with a provision, that, in case he shall pay a certain · debt, or do a certain thing within a time specified, the conveyance shall be void. . According to the literal construction, therefore, if this condition is not complied with, the thing thenceforth belongs absolutely to the mortgagee. But here the law steps in and controls the agreement, and attempts to prevent it from operating as a penalty or forfeiture, at the same time giving it all its force as a security or guaranty. For this purpose, different modes are adopted in different codes of laws, all of which agree in applying the value of the thing mortgaged in satisfaction and

ed to be secured; so that by all the codes justice is done, if there is no surplus value. But if there be a surplus value, some of the codes will reach it, and others not, and the same code will reach it in regard to one kind of pledge, mortgage, or hypotheca-tion, and not another. For example, by the English and American law, if a debtor pledges bills of exchange or any personal property for a debt, to an amount exceeding its value, the creditor must account for the proceeds, and pay over the surplus to his debtor; but in England, and so in some of the U. States, if the debtor mortgages lands, of which the creditor takes possession for breach of condition, the debtor has three years to redeem it, after which time the land is absolutely gone, though twice the amount of the debt in value. The law, in this case, supposes three years to be time enough to allow the debtor to redeem in case of an excess of value of the land; and this supposition is not wholly unreasonable, since the debtor has all that time to sell the land, if he can get more than the amount of the debt for it. civil law, as more generally administered where it has been made the basis of modern codes, and so the laws of many of the U. States, adopt a different mode, prescribing an appraisement of the mortgaged land, and providing that it may be sold by auction, it two thirds of the appraised value is bid for it; and the proceeds of the sale are applied in satisfaction of the debt or obligation guaranticd by the mortgage, and the surplus, if any, paid over to the debtor.

MORTIER, Edward Adolphus Casimir Joseph; duke of Treviso, marshal and peer of France, &c. He was born at Cambray, in 1768, received a careful education, entered the military service in 1791, as licutenant in a regiment of carabineers; afterwards became captain of the first battalion of volunteers of the department of the north; took part in the battles at Quiberon (April 30, 1793), Jemappes, Neerwinden, Hondtschoote, and distinguished himself on all occasions. In 1794, he was conspicuous at the battle of Altenkirchen, and treated with the elector for the surrender of Mentz. In 1799, he was made general of brigade, and soon after general of division. Murch 15, 1800, he received the command of Paris, and evinced his attachment to Bonaparte at the time of the unsuccessful attempt against the life of the first consul on the third Nivose. After hostilities had reconmenced against England, in 1803, he oc-

return, he was made one of the four gene- vesicles, offensive odor occurring in the rals of the consular guard, and, May 19, 1804, marshal of the empire. In September, he took the command of a division of the grand army; in October, passed to the left bank of the Danube, and was defeated in the battle of Dürnstein by Kutdsoff. . In the war with Prussia, he took possession of the electorate of Hesse (November 1, 1806); passed through Hamburg to the shores of the Baltic; occupied the Hanse towns, and conducted the hostilities against Sweden, till Napoleon, towards the end of the campaign, recalled him to the grand army, where he took part in the battle of Friedland. He then commanded in Spain, where, in connexion with Lannes, he took Saragossa, defeated the Spaniards at Ocana, and assisted Soult in his plans against Badajoz. 1812, he commanded in Russia, and was left in the Kremlin by Napoleon when he marched out of Moscow, with orders to blow it up. At the reopening of the cam-raign, in 1813, he was placed at the head of the young guards, fought at Lützen, . Bautzen, Dresden, Hanau, and, in 1814, in the different battles in France; and, April 8, acceded to Napoleon's dethronement. Louis XVIII made him peer of France. He was in Lisle when the king fled to that city, in 1815, and informed the king of . the unfavorable disposition of the garrison. Louis went to Ghent, and Mortier entered the service of Napoleon. After the sec-ond restoration, he lost his dignity of peer, but was made commander of the military division in Rouen. In 1816, he was placed in the chamber of deputies, and in 1819 again made a peer.

Mortier. (See Cap.) Morrirication, in medicine, is the death of a part of the body while the rest continues alive, and often in a sound state, If the part be a vital organ, as the lungs, its death must necessarily be followed by that of the whole person. Mortification is called gangrene, and sphacetus, when occurring in soft or fleshy parts, as in the stomach or the limbs; and caries when in a bone, as in the spine, in the skull, &c. It is caused by violent inflainmation, by exposure to freezing cold, by hospital fevers, by languid, or impeded, or stopped circulation; as in cases of bed-ridden or palsied persons, and by improper food, particularly the spurred or middewed grain. It may be recognised, when preceded by inflammation, by the following signs: subsidence of pain, heat and redness, and loss of sensibility; brown lividity,

cupied the electorate of Hanover. On his blistered skin, with bloody serum in the part, and by a small, rapid, intermitting. pulse; by shiverings followed with cold sweat, diarrhœa, delirium, hickup, dejection of spirits, and by a wild, cadaverous countenance. When a part having been frozen is suddenly exposed to heat, mortification rapidly ensues; the part becomes florid; inflammation is unsuccessfully attempted. and sphacelus is the result. In the above species a distinctly marked line divides the dead and living portions; often a healthy separation custies. Mortification is common in the fevers, wounds and injuries of the crowded jails and military hospitals of This gangrene is considered contagious by some surgeons, the nurses and orderlies suffering from ulcers and sloughs on the hands, when touched with . the sponges used in cleansing the sick. The same effect is produced on the sound portions of the skin of the sick. hospital gangrene is distinguished by its rapid spread to contiguous parts, as from fingers to arms, by the oozing of grunous blood, by horrible fetor, by fatal depression of spirits, and by the sullen despair of patients who, on the day of battle or of amputation, were the bravest of the, brave. Sometimes the cutting a pail to the quick, or a slight bruise, will induce gangrene in old or debilitated persons.— Milden mortification differs from other. kinds in appearance and process, begin ning with coldness and numbress in fingers or toes, without fever, but with spasms, and hebetude of mind; it separates arms, legs or thighs, and nose. It is . more often found in the voluptions rich than in the laboring poor, in hige felders than in free drinkers. It is thought to be connected with a diseased state of the digestive organs, and great nervous debility. Mr. Pott sometimes checked it by opium in a few days, and, after the dropping off of the affected parts, the patients recovered health. There is a dry gangrene to which palsied persons, as well as others, are liable, which slowly destroys the limb, and commonly without inflammation or putrefaction. This is sometimes explained by the absence of warmth, and moisture, and air, which are removed by preceding atrophy-the color livid, though sometimes nearly natural. When the bones of the leg mortify, or become carious, new osseous matter is provided, in sound constitutions. This process, occupying years when left to nature, is much accelerateu by the artificial removal of the dead

MORTMAIN. Lands held by a corporation are said to be held in mortmain (mortua manu, dead hand); the meaning of which is that the estate is a perpetuity, or, in other words, is not alienable. The expression has particular reference to estates held by the religious and eleemosynary corporations in England, which became objects of jealousy very early, it being apprehended that all the lands of the kingdom might come by conveyances prompted by the piety or superstition of proprietors into the hands of those corporations. Accordingly, conveyances and devises to corporations, civil or ecclesiastical, were forbidden by magna charta, and have been restrained and interdicted by subsequent statutes. In the U. States, the amount of real estate that may be held by a corporation is usually limited in its charter, and it is also understood, as the general law, that any corporation can only hold land for the purposes of its incorporation, unbest authority is expressly given in its The English statutes of mortmain have been held to be in force in Pennsylvania (3 Binney's Reports, App. 626), but they have not been expressly recognised as being a part of the common law in other states.

Morros, John, one of the signers of the American Declaration of Independence, was born in the county of Chester (now Delaware), in Pennsylvania. About the year 1764, he was sent, as a delegate, to the general assembly of Pennsylvania, of which he continued to be for many years an active and distinguished member. was deputed to the congress of 1774. On the question of declaring independence, in 1776, the delegation from Pennsylvania being divided, Mr. Morton gave his casting vote in the affirmative. This was an act of signal intrepidity, under all the circumstances of the case. In the following year, he assisted in organizing a system of confederation for the colonies, and was chairman of the committee of the whole at the time when it was agreed to (November 15, 1777). He died in that year, of an , inflammatory fever, in the 56th year of his age. His character was truly estimable in private as well as public life.

Morveau, Louis Bernard Guyton de, baron, a celebrated chemist, born at Dijon, January 4, 1737, distinguished himself, in 1773, by the invention of the method of purifying the atmosphere by means of chlorine, which is now generally employed with the greatest success. Morveau was previously general-advocate of the parliament at Dijon, an able man

of business, eloquent and upright, He" founded a school at Dijon for his favorite study, chemistry, and, during 13 years, himself conducted it. In 1801 appeared his Description complète des Procédés de Désinfection. In 1791 he was made member of the national assembly, afterwards of the convention. At the buttle of Fleu rus; he ascended in a balloon. In 1797 he retired to private life. Subsequently he was chosen a director of the polytechnic school, which he assisted to establish, and a member of the institute. After the restoration he was pensioned. He died January 2, 1816. His wife translated sevchal chemical works from the English, Swedish and German; also Werner's treatise on the exterior characters of fossils (1790).

Morvey. (See Fingal.)

MORVIEDRO, OF MURVÍEDRO; a town of Spain, in Valencia, 13 miles north-north-east of Valencia; Ion. 22 W.; lat. 39° 38′ N.; population 6273. It is supposed to be the ancient Seguntum destroyed by Hannibal, and which fell a victim to its fidelity to the Romans. It was afterwards rebuilt by the Romans with great splendor. The city of Morviedro is full of the remains of uniquity; the walls of the houses, the city gates, and doors of the churches and iuns, are covered with Roman inscriptions. The most curious monuments are the castle and the theatre. The name is supposed to be derived from an allusion to this circumstance—murivalence (ancient walls).

Mosaics are imitations of paintings by means of colored stones, pieces of glass, of marble, and even of wood of different colors, cemented together with much art. The name is sometimes supposed to be derived from Moses, as the pretcuded inventor; sometimes from Musa, in the senso of elegance, beauty; and sometimes from povoccor, museum (a grotto consecrated to the muses), perhaps from the circumstance that mosnic work was first used in grottocs. The Italian musaico, as well as the French mosaigue, originated from the word musaicon of the Byzantine Greeks, who first introduced the art into Italy. We know nothing with precision of the invention and history of this art in antiquity. Probably it originated in the East, but received its perfection from the Greeks, and was thus conveyed to the Romans in Sylla's time. In Italy, and in most of the countries occupied by the Romans, many floors ornamented with motaic work have been found amongst the ruins. When, in the fifth century, the arts and

sciences were driven from Italy by the shape. The opus reliculatum of the andistracted state of the country, this art was preserved by the Byzantine Greeks, and was restored to Italy in the thirteenth century, where it attained the highest perfection, particularly when Clement VIII, at the commencement of the 17th century, had the whole of the interior of the dome of St. Peter's ornamented with this work. Giambattista Calaudra improved mosaic by the invention of a new cement. He and many succeeding artists employed the art for copying original paintings of famous artists, and thus eternizing them in their original freshness and beauty; for one of the greatest advantages of this kind of painting is its wonderful power of preservation. In this manner Guercino's Martyrdom of St. Petronilla, and Dominichino's Communion of the dying St. Jerome, were preserved. Peter Paul, of Christophoris, founded, at the commencement of the 18th century, a school for mosaic in Rome, and many of his scholars carried . the art to a still higher degree of excellence. In recent times two kinds of mosaic are particularly famous, -the Roman and the Florentine. In the former the paintings are formed by joining very small pieces of stone, which gives greater variety and elegance, and facilitates the 1. presentation of large historical paintings. The Florentine style, which makes use of larger pieces of stone, is far more troublesome, and is adapted only for small paintings. Mosaic in wood the Italians call tansia, or tarsia; the French marqueterie. (See Marquetry.) In the most costly mosaics, precious stones have been cut to turnish materials; but in common works of this art enamels of different colors, manufactured for the purpose, are the material employed. The enamel is first formed into sticks, from the ends of which pieces of the requisite size are cut or broken off. These are confined in their proper places upon a plate of metal or - stone, by a cement made of quicklime, pulverized limestone, and linseed oil. The cement, is spread over the plate, and a drawing made on it to guide the artist before he commences his work. He has also constantly before him the painting to be copied. After the whole has adhered, it is allowed to dry two months, and is then polished with a flat stone and emery. Inlaid works, of agute and other costly stones, are executed on the same principle as mosnic, except that the stones are larger, and cut to the shape of different parts of the object to be represented, whereas in niosuic the pieces are of the same size and

cients, with which columns and walls were sometimes incrusted, is found to consist of small stones, of a pyramidal form, the apex of which is imbedded in mortar, while the base, which is polished, forms the outer surface. A mode has recently been invented of sawing the plate with the mosaic paintings into two or three sheets, and thus multiplying the paint-ings. Should smoke or dirt soil the surface, it has only to be polished to be restored to its original beauty. In 1819, Fernbach, a native of Baden, invented a new kind of mosaic painting, imitating . with surprising fidelity the color, the juncture, the lustre, &c., of mineral bodies. Professor Blank's mosaics of moss have also attracted much attention.—See J. B. Blank's description of his Mosaic Phintings (Würtzburg, 1820).

Mosambique, or Mosambico; a kingdom of Africa, on the east coast, and in that part of the Indian sea which passes between the continent and the island of Madagascar. It takes its name from the capital, situated on an island, the chief of three islands which form a part of the king-The city of Mosambico is said to have once been very handsome; the houses well built, especially the churches and convents, and the fort, or eastle, which is about a musket-shot from the town; but it is now much reduced. Mr. Salt stated the population, in 1809, at 500 Portuguese, 800 persons of Arabian extraction, and 1500 negroes. The trade is in gold, ivory and slaves. The fort is one of the strongest and best contrived which the Portu guese have on this coast. The kings of Portugal spared no cost to fortify and garrison Mosambico, and to provide it with an hospital for the sick, and a well-stored magazine, with all necessaries for shipping, though the charge of keeping them up often exceeds the revenues it affords. Lon. 41° 38', E.; lat. 15° 5' S. The island of Mosambico, though the largest of the three islands, is nevertheless very small, not being above two bow-shots in breadth, and about six in length; about two miles from the continent. The bay is about three miles in circuit, so that the points of land on . each side advance into the sea. The other two, St. George and St. James, lie on each side of it, facing the continent in a direct line with it. Over against that of St. George, and about a mile from it, is the cape called by the Portuguese Cabo Cetra, which is a peninsula, joined to the continent by a small neck of land, covered with the sea at high, but fordable at low water.

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MOSAMBIQUE, STRAITS OF; that part of the Indian ocean which divides the island of Madagascar from the continent of Africa.

Moscart, Pietro, a celebrated physi-, cian and statesman, son of one of the most celebrated surgeons in Italy, was born in 1736, at Milan. As his talents were obvious at an early period, his father cultivated them with the utmost care, and at length sent him to Tuscany, and afterwards to Turin, to study under the direction of Bertrandi and Beccaria. Moscati, after having taken his doctor's degree at Pavia, was appointed assistant physician to the hospital at Florence, where, and at Bologna, he diligently labored in the acquisition of professional knowledge. In 1764, he was elected professor of anatomy and surgery in the university of Pavia, and published his anatomical lessons, and a Discourse on the physical Differences which exist between Man and Animals. Both of these works were well received, and the latter was translated into German. In . 1772, Maria Theresa nominated him professor of midwifery-surgery, and placed him at the head of a foundling establishment which she had formed. In 1796, Moscati espoused the cause of Italian liberty, and became a member of the Cisalpine congress. In 1797, Bonaparte selected him as one of the fittest persons to be a director of the Cisalpine republic; and, when Moscati wished to decline the office, the general replied to him, " If honest men refuse, I must appoint knaves Moscati therefore accepted it; but he soon re gued, and resumed his medical pursuits. He was arrested by the Austrians, in 1799, and confined in the fortress of Cattaro, where, however, he was liberated to attend on the arch-duke Charles, who had fallen ill. After the battle of Marengo, he returned to Italy, and was one of the deputies sent to the consulta at Lyons. Under the government of Napoleon, he was successively made director-general of public instruction, a senator, a dignitary of the iron crown, grand eagle of the legion of honor, and a count. He was also highly respected at the vice-regal court, and was the favorite physician of the viceroy and vice-queen. Moscati was sincerely attached to Eugene Beauharnais, and was one of the senators who was the most active, in 1814, in endeavoring to raise him to the throne. He was afterwards one of the directors of the Italian institute, and president of the central council of health. He founded, at his own expense, a meteorological and astro-

nomical observatory. In private life, he was universally esteemed for his many virtues, and the affability of his manners. He died in 1821.

. Moscheles, Ignatius, one of the most celebrated pianists and popular composers, born at Prague, in 1794, is the son of a Jew, who, having discovered the musical taste of the child, had him instructed (1804) by Weber, the director of the conservatory there. The boy was first taught the compositions of Mozart, which he executed with a precision and expression that excited the astonishment of connoisseurs. Bach's and Händel's works were his next studies. He was equally successful in them, and soon displayed a remarkable talent of extemporizing on any given subject. He soon made himself master of the laws of counterpoint. Even in his eighth year, he had already made some attempts at composition. His instructer next obliged him to practise and study Clementi's compositions for the piano, and the young artist made his appearance in a public concert in 1806. His skill, purity and vigor of expression, and knowledge of harmony, were universally admired, and induced several amateurs to send him to Vienna to complete his education. There he enjoyed the instruction of the celebrated Albrechtsberger and Salieri, and made such astonishing progress as to become the chief performer at the concerts of instrumental music, and the favorite of the Vienna public. After making his appearance in different parts of Germany, with universal applause, Moscheles set out, in 1820, on a professional tour in Holland, France and England, and in all these countries was no less successful than he had been at home. He afterwards made a second visit to London, and returned in 1826. He has since appeared in the countries in the north of Europe, whence he returned in 1830, and As an artist, Moperformed in Paris. scheles is remarkable for his elevated style, and the almost incredible facility with which he overcomes difficulties. As a composer, he is much esteemed; but his compositions are extremely difficult of execution.

Moschus, a Greek pastoral poet, was a native of Syracuse. The time when he flourished is not accurately known, some making him a pupil of Bion, who is supposed to have lived under Ptolemy Philadelphus, while others suppose him a contemporary of Ptolemy Philometer (B. C. 160). The tenderness with which he speaks of Bion, in his beautiful elegy

on that poet, implying a personal acquaintance, seems to render the former opinion of the remains of Moschus, which exhibit great elegance of style and delicacy of conception. They are generally printed in conjunction with those of Bion (q. v.), and may be found in the Poeta Minores.

37° 37 8" E.; the ancient capital of the Russian empire, and still the place of the emperor's coronation. It was also the imperial residence, till Peter the Great selected Petersburg for this purpose. Mos-In 1383 and 1571, it was entirely destroyed by the Tartars, but each time soon rebuilt. A third time, 1611, it was burnt by the Poles. The plague has also often produced a great mortality there; the last time, in 1771. In 1831, it was severely afflicted by the cholera morbus. Under Catharine II, Moscow was extended and embellished. It comprised, in 1812, in a circuit of about twenty-seven miles, five principal divisions: 1. the Kreanlin (q. v.), that is, fortress; 2. Kitaigorod; 3. Beloigorod, with the buildings of the university, founded by the empress Elizabeth, in 1755; 4. Semlänoigorod, and, 5. thirty Sloboden, or suburbs. The town contained above 10,000 houses, among which were 288 churches. There were also numerous booths, and 350,000 inhabitants (20,000 of the number, soldiers), several imperial colleges, institutions for education and sciences, a large foundling hospital for 5000 children, and also the principal manufactures of the empire. Moscow has been, and still is, the centre of the trade of the interior, and a mart for enormous stores of goods of every description. This and the palaces and luxury of the high Russian nobility, who are here less dependent on the court, and principally pass the winter in this place, make it one of the largest and most magnificent cities of the world. The peculiarities of the national customs and character remained longer here than in the other cities. Recent times have given it great historical interest. Moscow was the torch which lighted the fire of independence through subject Europe. When Napoleon advanced, in 1812, with the most numerous army which Europe had seen since the

great migration of the nations, into the interior of the Russian empire, and her most probable. A few idyls form the whole, armies had in vain attempted to stay his course at the Moskwa (q. v.), near Borothe opposition of many members of the council of war, to sacrifice the city in order to save the empire. The stores from Moscow (Moskwa); on the Moskwa Moscow, and secured. The greater part and Neglina, in a fertile and richly cultiof the inhabitants followed, with their vated country; lat. 55° 45′ 45″ N.; lon.
37° 33′ 8″ E.; the ancient country. movable property; 17,000 wounded were conveyed in 4000 wagons, leaving only 2000 severely wounded and sick in the hospitals of Moscow. The army retired to Kuluga. (See the article Russian-German War.) The governor of Moscow, in cow was founded by the grand-duke the mean time (count Rostopschin, q. v.), Jurge 1, in 1147, and enlarged by the prepared to prevent the enemy from grandyduke Daniel, about the year 1300. maintaining himself in the heart of the empire. He set fire to his beautiful country seat, near Moscow, and others, equally determined not to see their property in the hands of the enemy, did the same; and many citizens loudly exclaimed, that it would be better to burn Moscow than to give it up to the French., But count Rostopschin could only effect the departure of all the civil and military authorities. together with the officers of the fire-department, and 2100 firenien, with 96 fireengines. These, as belonging to the military, were despatched from Moscow a day before the entry of the enemy. The prisons were not opened, but cleared, and 810 prisoners were conveyed to Nishnei-Novogorod, under an escort, two days before the arrival of the French. But half of the inhabitants remaining at Moscow (12-15,000) were a mere mob, many of whom may have profited by the universal disorder, to set fire to several houses that they might the better plunder. The conflagration of Moscow, which, in the course of three days, consumed three fourths of all the houses was according to universal opinion, not accidental, but a preconcerted plan, and the order of count Rostopschin. The latter repelled the charge in his work La Vérité sur l'Incendie de Moscau, par le Comte Rostopchine (Paris, 1823), and contradicted the reports of the French army, disclaiming the honor of this great act; but he acknowledged that incendiaries had been taken in the act by the French, who had firebrands and rockets about them. According to the printed reports of the examinations, thirty persons were arrested by the French, thirteen of whom were shot being convicted of having put fire to dif-

ferent parts of the city, by Rostopschin's command. It is known that the owners of the magazines of wagons, who occupy a whole street in Moscow, when they saw that the French officers, immediately on their arrival, had taken possession of these carriages, unanimously put fire to them, the following night, rather than see their ' property in the enemy's hands. Rostopschin also names many merchants who did . the same with their houses, some of whom were surprised in the act, and immediately shot. Some of the French may also have been accessary to the confingration, from carelessness, or for the sake of plundering. In the first night after the arrival of the French, the large warehouses in the neighborhood of the Kremlin were in flames; then the fire broke out in several parts of the city. The fifth day after the French had entered, a high wind carried the flames in every direction; so that, in the course of three days, 7932 houses were consumed to ashes. Napoleon having given permission that those houses which were on fire might be plundered, the soldiers did not exert themselves in subduing the flames. The Russians at that time maintained that the conflagration was entirely the work of the French, which added to the exasperation of the people. Even Kutusoff declared to Lauriston that he had only given orders to destroy several inagazines. The rest had been done by The following circumthe French. stances attended the entry of the French: Napoleon waited in vain for messengers to deliver to him the keys of the city. At last, a deputation appeared, consisting of twelve badly-dressed persons of the lower Napoleon therefore did not atorders. tend to them. A young Russian, who had conceived the idea of issuing a proclamation in the name of Napoleon, was killed by the people. When the advanced guard of the French entered Moscow, Sept. 14, and proceeded to the Kremlin, a Russian peasant suddenly sprang for-ward, and killed a Polish officer, whom he had taken for Napoleon. Some of the citizens prepared to defend the Kremlin; but Murat brought forward his cannon, and they fell a sacrifice to their despair. On the 15th, at three o'clock in the afternoon, Napoleon entered with his guards. and took up his abode in the Kreinlin. But, volleys of smoke soon rose at a dis-

gration, Napoleon left the Kremlin, and retired to castle Petrowskoi, a league from the city. His last words were, "Where you cannot extinguish, plunder!" Horrors upon horrors now succeeded: Moscow was burning till Sept. 21. At last, order and tranquillity were restored, on the first of October: but the "holy city" thus destroyed roused the people to vengeance against the French; and the army, in the midst of plundered treasures, was soon deprived of the very necessaries of life. Of 150,000 soldiers who had entered Moscow, Napoleon, in five weeks, had lost 40,000: thus retreat became unavoidable. From the 19th to the 22d of October, preparations were made for retiring, which were accompanied by new acts of ferocity and avidity. On the last day, it was resolved to destroy the Kremlin; but this only partly succeeded. Of 2600 stone houses, but 525, and, of 6600 wooden buildings, only 1797, were preserved. The entire loss which the fire and the war occasioned to the city and . the government of Moscow, was estimated at 321,000,000 of roubles. The Russian government appointed a commissioner to make indemnification; but many of the inhabitants, who had lost the greater part of their property, did not hand in their estimates; thus, for instance, the loss of the two counts Razumowski, of general Apraxin, count Butterlin (whose library, worth a million, was entirely destroyed), and of general Rostopschin, amounted to five millions of roubles, in houses and furniture. After the recovery of the country, the Russians were so actively employed in rebuilding Moscow, that, in the course of nine years, it had risen from its ruins in greater beauty than before the conflagration. The houses are principally of brick; the streets are paved with pebbles, and bordered with foot-paths; fifteen main streets diverge from the centre, terminating at the fifteen barriers; the principal squares are those of Loubianka, and of the poultry nurket, near the centre of the cities; the number of streets is 765; houses, 10,000, of which 8027 have been built since the conflagration of 1812; cathedrals, 7; churches and chapels, 275, and 1 mosque, 21 monasteries, 56 hospitals, The imperial university has a library of 33,000 volumes: the course of instruction includes the moral and political tance, and the flames proceeded from five sciences, physics, mathematics, medicine, hundred different quarters. The attempts and polite literature. Several learned soto extinguish the flames and restore order cieties are connected with it. There are were fruitless. All Moscow was on fire. numerous other literary institutions. Some It being impossible to subdue the confia of the hospitals are very extensive, particularly the military hospital, with 1900 beds, which received 11,650 patients in 1823. The population, in summer, is 246,545, and, in winter, receives an increase of 150,000.

Moselle; a department of France.

(See Departments.)

Moselle, or Mósel (anciently *Mosella*). a tributary of the Rhine, rises in France, in the Vosges, and flows into the Rhine at Coblentz, opposite to Ehrenbreitstein. It runs through the French departments of the Vosges, the Meurthe and the Moselle, the southern part of Luxembourg, and the Prussian province of the Lower Rhine. The length of its course is about 300 miles. Its principal tributaries are the Meurthe and the Saar. From Metz to Treves, it has a broad valley, but, belowthe latter place, it is confined by the brunches of the Hundsrück. The mean breadth is about 500 feet; depth, 7-15 The navigation is tedious, on account of the winding course of the river, , and, in some parts, is difficult and danger-From Treves to Coblentz, the scenery on the river is very picturesque,. almost every village and every group of hills, presenting a beautiful landscape. The neighborhood of Trarbach is charming; mountains, vine-clad hills, fertile valleys, interchange with each other, and several brooks run into the Moselle. The principal towns on its banks are Pont-à-Mousson, Metz, Thionville, Treves and Coblentz. Wood for fuel and building, .coal, iron, slates, wine, grain, &.c., are brought down the river in large boats, eighty feet in length by twenty in breadth.

Moselle Wines; a sort of clear and dry wines, with a light, pleasant flavor and thigh aroma, produced in the countries on and near the Moselle. They are generally only first rate ordinary wines, but are sometimes of a superior quality. They come to maturity in about five or six years, ·but, in a favorable season, they will keep twice that time without deterioration. The best are produced at Braunenberg, Graach, Wehlen, Zeltingen. The Pisporter, Drolmer and Neumagner are also esteemed. They are now much used in : Prussia, on account of the high duties on The Moselle wines are foreign wines. often recommended for their diuretic qualities, and as preventive of obesity

Moses was born in Egypt, about 1600 B. C., among the then severely oppressed Hebrew people. Three months after his birth, his futher, Amram, and mother, Jochebed, both of the race of Levi, were obliged.

to expose him, in obedience to a royal command, which enjoined that all the male children of the Hebrews should be put to death. But the daughter of the Egyptian king (a tradition preserved by Josephus names her Thermutis), going to bathe in the Nile, found the child exposed in a carefully constructed basket of bulrushes upon the border of the river, and took ' compassion upon him. His sister Miriam, who was standing near, offered to procure, him a nurse, and immediately summoned his mother. The feelings of his unhappy, people were therefore instilled into him with his mother's milk, and he returned, when he had reached a tit age for instruct tion, to the king's daughter, who named' hirr Mo-udsche (whence the Hebrew Mocheh), signifying one delivered from the ivaters, and adopted him as her son. He was afterwards educated for the duties of the priesthood, to which the royal family belonged, and could now, as the disciple of the priests, at ain to all the arts and knowledge which this privileged caste carefully confined within the limits of their order. The means of instruction thus afforded him were the best which his time possessed; and Moses penetrated still deeper than his instructors into the secrets of their religion, physics, legislation, and government, as appears plainly from his words and actions. His expedition into Ethiopia, in the fortieth year of his age, as leader of the Egyptians, when he subdued the city of Saba, won the affections of the conquered princess Tharbis, and married her, rests only on the tradition preserved by Josephus. Yet Moses could not forget his people in the splendor of a court: an outrage committed by an Egyptian on a Hebrew excited his anger, and he secretly slew the Egyptian. But this deed became known, and he escaped the pursuit of the king only by a hasty flight into Arabia. Here he took refuge with Jethro, a Midianitish prince and a priest, and esponsed his daughter Zipporah, whom, at their first meeting, he had rescued from hostile shepherds. Thus the adopted son of a king's daughter became the herdsman of an Arabian, and history does not say that, he aspired to any thing greater. But the misery of his nation must have been continually present to his mind, and not in vain had he been led, by extraordinary means, into the sanctuary of Egyptian wisdom, and endowed with the rarest powers and knowledge. This knowledge occupied his mind in his solitude, and explained to him the secrets of nature, whose

mysteries and wonders addressed him in a solemn tone amid the deserts and mountains of Midian, and elevated his heart to that God whom he discerned more clearly than his fathers. Yet the germ of his great undertaking remained for a long time maturing in his mind, before it was brought to light, and assumed the form of a deeply-meditated plan. Moses had already attained to an age which gives mature experience, patience and tranquillity of mind, when this took place through an immediate interposition of God. While he was feeding his flock on mount Horeba he saw a bush on fire, and, considering why the bush was not consumed, he heard the voice of the Lord proceeding from it, who announced himself to him as the God of Abraham, Isaac and Jacob, and commanded him to lead his people out of Egypt into the land which he had promised to the patriarchs. The name Jehovah, By which God declared himself, was already known to him by means of the Egyptian mysteries, and conveyed the idea of the one, everlasting and unchangeable. But not without anxiety, arising from the view of the difficulties which he should meet with, and from his modesty, did he determine to obey this call. Pharaoh, he thought, is hard and unbelieving, he himself outlawed, his people rude, and incapable of comprehending the idea of the God whom he should amounce to them. Being slow of speech, and possessing none of the arts of an orator, his words will not be believed without visible God therefore gives him power ,ω prove his mission by miracles, and ioms to him his elder brother, Aaron, as a speaker. Thus prepared, Moses becomes confident that he shall succeed, with the assistance of God, and returns to Egypt, a gray-haired man of eighty years, to undertake the work. All the difficulties which he had foreseen, and yet greater ones, opposed him. He, had the eloquence of Aaron, it is thue, to aid him, and the people of Israel must recognise the hand of God in his deeds; but, degraded by long slavery, they wavered between belief and doubt. In vain did he produce changes in the ordinary course. of nature, which could not be imitated by the art of the Egyptian sages, . and for the performance of which a higher power was obviously requisite. The tenth of the destructive plagues which afterwards came upon Egypt-the destruction of all the first-born-first moved the hardened heart of Pharaoh to allow the Hebrews to depart.

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placed himself at their head, and conveyed them, with all their possessions, out of Egypt, passing, under the protection of God, through the midst of the Red sea. in which the faithless Pharaob, pursuing them, was drowned, with the army which followed him. Yet this deliverance from a formidable enemy was only the beginning of his enterprise. A rude, tumultuous people was around him, who, until now, had obeyed the scourge of their taskmasters, but knew not how to live in free-Their distress in the desert excited loud murmurs; their meeting with the. hostile Bedouins occasioned bloody combats; the jealousy of the elders produced dissensions and opposition to their leader: his life was often in danger, and he was . often obliged to maintain his authority by force and severe punishments. But, with wonderful wisdom, he remained firm, in spite of all opposition, to his plan of transforming the stubborn faultitude into a devout, civilized and independent people. He supplied the hungry with food from heaven, and opened to the thirsty new fountains upon the rock of Horeb, by the aid of God, who granted to his petition what the people needed. In all his ordinances, he declared himself to have the express command of God, who wished to draw his people to himself, and to form their hearts by love and foar. Religion is the spirit of the law which Moses began to announce three months after his departure from Egypt. Arrived at Sinai, a mountain of Arabia, he allowed the people to encamp, while he himself ascended the holy summit to pray, where, surrounded with thunder, and trembling at the presence of God, the laws were announced to him which were to regulate * the lives of the Israelites. Founded upon the faith of the patriarchs, these laws are rather a restoration of the simple truths which had governed the primitive world than a new religion. As presented by Moses, they were purified from the errors and follies of superstition, which had gathered round them among idolatrous nations, and were exhibited in a form adapted to the wants of the Hebrews, who had grown from a single family to a rude, ungoverned multitude. The great object. of his legislation is to inculcate the doctrine that Jehovah is the only God, who will allow no other god besides himself, nor any visible image of his being; that he is himself the King of his people, and that he will rule them by his priests: hence the laws by which Moses regulates the worship of the Hebrews, the adminis-

tration of the government and of justice, and even directs their manners, and lays down rules for the care of their health, bear . the marks of their heavenly origin. Arising from the wants of the moral and physical nature of man, they are excellently adapted to the peculiar character of the people, to the climate, and to the po-litical position of the land appointed for their dwelling, and to the plan of Providence of making this people the depositary of a divine revelation, to be developed in the fullness of time, and finally extended over the world. These laws forbid intermixture with other nations, the introduction of foreign customs, and the adoration of strange deities. As a people peculiarly dedicated to God, the Hebrews were to be separated from all neighboring nations, and to stand separate and independent, relying upon God as their Lord and Master. Regulations, extending to the minutest particulars of the daily occurrences of life, in which even tho selection and preparation of their food, and the care of personal cleanliness, were not forgotten, gave them habits adapted to' their character and religious destination. A ritual, composed of a thousand minute · ceremonies, and, as a whole, allegorically designating a covenant with God, to be incessantly renewed by offerings, prayer, and purification, imposed on them the duty of continual diligence in the service of their heavenly King. To the race of Levi, to which Moses belonged, he assigned the care of the religious service, and of seeing that the laws were obeyed, investing, not his sons (whom he allowed to take their place among the common Levites), but the descendants of his brother . Anron, as God commanded, with the first office in the kingdom,-that of highproperty in land, the other tribes were to pay tithes: they were subjected to the authority of elders and judges, and the firmuess of their political union was secured by certain festivals, to be celebrated by them in common, and by exclusive . -devotion to the service of God in the tab-· crnacle,—a movable temple, regarded with awe, as the appointed dwelling of Jehovah, into the interior of which the priests blone were allowed to enter, and where, moreover, all the taxes were deposited, so that it was the central point of all the riches of the nation. These are the chief points in the legislation of Moses, which, even if it displays some Egyptian features, yet plainly manifests the endeavor to wear the Hebrews from Egyptian customs

and prejudices, and to elevate them to political and religious independence, and far surpasses, in originality and elevation of principle, in consistency and expressiveness, and, what most proves its heavenly origin, in proofs of true humanity, the boasted legislation of Solon and Lycurgus. Yet its importance was not at once recognised by the Hebrews. When they were already near the end of their journey towards Canaan! Moses saw himself compelled, in conscquence of new evidences of discontent, to lead them back into the desert, and forty years of toilsome wandering must be passed there: the severe punishments' which the law threatens against transgressors must be executed in all their rigor: all those who had attained to man's estate at their departure from Egypt must die, before the law could be thoroughly known, and become habitual with those who had been born during the wandering. Moses himself, distressed with cares, troubles and . occupations of all kinds, was not permitted to live to see the complete accomplishment of his plan, on account of a murmur which, in the midst of his distresses, he allowed to escape against his God. After he had appointed Joshua to be the leader of the Hebrews, and had taken a solemn farewell of the people, he ascended a mountain in Perma, beyond Jordan, from which he surveyed the land of promise, which he could not enter, and closed his eventful life in his 120th year. He prevented all superstitious reverence for his bones by his command, that his remains should be buried secretly, and the place of his grave concealed from the people. The books which stand under his name at the head of the Old Testament are the monument of his worth. As it has been supposed priest. To this tribe, excluded from all 'that the material upon which he wrote was stone, and as it was hardly possible for works of the size of the Mosaic to be written at length on such a material, critics have attributed their collection, and arrangement in five books (whence their name, in Greek, Pentateuch), to a later writer, of the time of David or Solomon, But M. Greppo, in his essay on the hieroglyphic system of Champollion (translated) by Isaac Stuart, Boston, 1830), maintains that Moses might have written on papyrus, and refers to an Egyptian manuscript on papyrus, in the museum at Turin, containing an act drawn up in the reign of . Thouthmosis III, two centuries at least before Moses; and it is generally admitted that much must have been written by him, as the laws, which he could not trust to uncertain

tradition, in the books of Leviticus and Deuteronomy. It is equally certain that he is the author of the magnificent songs, in which he celebrates the deliverance of -the Israclites from the Red sea, and blesses and takes leave of the people before his death. The collection of the several portions of his writings into a whole, may be the work of a later time, which cannot be fixed within more precise limits than those above-mentioned.—See Michaelis's Introduction to the Scriptures of the Old Testament (in German); Africe's Conjec-tures upon the original Sources from which it appears that Moses composed the Book of Genesis (in French, 1753); De Wette's Contributions to the History of the Old Testament (in German, Jena, 1804); Ynter's Commentary upon the Pentateuch (in German, Halle, 1805); Electhorn's, Augusti's, Berthold's Introductions to the Old Testament (in Germans); Faber's Hora Mosaica, or Dissertations on the Penta-`teuch.

Moses; a sort of boat. (See Boal.) Moses, Chorenensis, a historian and, geographer, and archbishop of Chorene, now Kerona, in Armenia, flourished about A. D. 462. (See Armenian Literature.) His principal work, a History of Armenia, from the Deluge to the Middle of the fifth Century, was first published with a Latin version, by John and William Whiston, in 1736, and, though mixed up with a great deal of fable, is a valuable history, containing many narratives not elsewhere to be found. He was also the author of an Abridgment of Geography, first published at Amst. rdam, in 1668, and several canticles, which are sung in Armenian, on the anniversary of Christ's presentation to the temple.

Mosherm, Johann Lorenz, one of the most distinguished German theologians, was born at Lübeck, in 1694; studied at Kiel, and, in 1719, became a member of. the faculty of philosophy there. His reputation as a teacher, writer and preacher, soon procured several flattering offers of promotion, which he declined; But, in 1723, he accepted the place of professor of theology at Helmstadt, where he was soon after (1726) inade ecclesiastical and consistorial counsellor, and abbot of Marienthal and Michaelstein. With these places he also held that of inspector-general of the schools in the duchy of Wolfenbuttel. In 1747, he was appointed chancellor of the university of Göttingen, where he remained till his death in 1755, lecturing daily on ecclesiastical history and most other departments of theology. Mosheim was the father of ecclesiastical his-

tory. His principal work on this subject is the Institutiones Historia Ecclesiastica, Libri iv (Helmstädt, 1755), which was ut-terwards published under various other forms, and translated into German, with additions; also into English, by doctor Maclaine. His Sittenlehre der heiligen Schrift (5 vols., 1753), continued by Miller (4 vols.), is valuable for its completeness, and for its practical character. In the department of pulpit cloquence, he rendered important services by his Americang tributlich zu predigen, and by his Heilige Reden, and is considered by the Germans the father of sacred eloquence in Germany, and an improver of German didactic prose.

Moskwa, Battle of the (called by the Russians the battle of Borodino, from the village of that name, on which their right rested); gained by Napoleon, September 7, 1812, over the Russians under Kutusoff, who had taken the command August 29. The Russian commander took his position, September 1, at Borodino, with the purpose of defending the capital against the advancing enemy. The Russians occupied a gentle rising on the left, bank of the Caluga, from the confluence of that river with the Moskwa to the wood through which the Kaluga road passes: their right wing was covered by the village of Borodino, situated on a height on the left bank of the Kaluga: 2000 paces to the left, in the rear, was a large redoubt. The left rested on a wood at the village of Seminovska, and was covered by works thrown up in front, and connected with the centre by a redoubt. The centre was covered by a ruined village. Works were also thrown up to cover different parts of the position. Barclay de Tolly commanded on the right, Bennigsen in the centre, and Bagration on the left. On the fifth, Napoleon, having reconnoitred the Russian position, took possession of the redoubt in front of the left wing, previous to a general attack. The attack began early in the morning of the seventh. The French, after making an impression with their artillery and musketry, marched forward to a simultaneous attack on particular points. Success was most doubtful in the centre, where the Russians at one time recovered the great battery, after it had fallen into the hands of the French, and drove them back with great slaughter; but the failure of the Russian left enabled the enemy to throw a mass of force upon the point, which could not be withstood. French had first got possession of the bat-teries by eight o'clock, but the fighting continued till late in the afternoon. The

French force amounted to about 150,000 men; the Russian was somewhat less; The Russians acknowledged a loss of 25,000 men, among whom was Bagration. tinguished themselves. (See Russian-German War, and Ney.)

structed in the Moresque or Saracenic style of architecture (see Architecture, vol. i, p. 342), and display, in unceasing variety, all the peculiarities, both ornanental and unornamental, of that rich and superb style. The mosques of the Arabs often include, in a quadrangular atea, an immense quantity of columns ranged in files, the multiplicity and extent of which impress the mind of the beholder with surprise and admiration. These columns are, in numerous instances, the rich spoils of an-Upon the site (it is tique monúments. said) where formerly stood the famous temple of Solomon, a superb mosque has been erected at Jerusalem. If the Arab temples astonish by their huge extent and prodigious colonnades supporting their arches and vaults, those of the Turks possess another kind of claim to notice and admiration in the grandeur and height of their various cupolas. Every province of Turkey has its own particular style and taste with regard to these religious structures; and, as the Moresque architecture possesses no fixed rules, deeming lightness and elegance alone to be the fundamental laws of the art, the architect is allowed to follow the bent of his own fancy freely. In these Mohammedan churches we find neither altars, nor paintings, nor images,. but a great quantity of lamps, of various kinds, which form the principal interior ornament, and some sentences from the Koran written on the white walls. Every mosque has its minaret or minarets. (q. v.) The mosques are quadrangular, and have fountains in the court for ablutions. • The entrances are hung with chains in such a manner that no one can enter without stooping. The floor is generally covered with carpets, but there are 'no seats. In a corner on the south-eastern side is a chair, on which the iman is scated when he reads the prayer. In the direction towards Mecca is a tablet, or recess in the wall, in which are usually some copies of the Koran, to direct the worshippers where to turn their eyes:-this is The dehamis differ called the kebla.

Russians retreated in good order, and from the mosques. In the former, the without loss, no pursuit taking place. The prayer for the emperor (kutba), is held. The finest of the mosques in Constanti-50,000, dead and dying, covered the field. nople is that of St. Sophia. Usually none. but Mohammedans are permitted to enter a mosque; but to this there are exceptions. Murat, Ney, and Eugene Beanharnais, dis- Thus the mosque of St. Sophia, by an ancient custom, was open to every Venetian ambassador for a fee of some ducats, and Mosque (medsched); a Mohammedan also to others. The imperial mosques have house of prayer. These buildings are confrequently public schools (madras), hospitals (imarets), and also kitchens for cooking. food for the poor. Their income is derived from certain districts and estates, whose inhabitants enjoy great privileges.

Mosquiro. (See Gnat.)

Mosses (musci); a natural family belonging to the cryptogamia of Linnaus, consisting of little herbaceous plants, having simple or branching stems, which are furnished with very numerous and more or less imbricated leaves; the roots are capillary, annual or perennial; the leaves are small, simple, sessile, embracing the stem, and entire or minutely serrated on the margin: they are always continuous with the stem, and never fall off. Water is absorbed by the leaves very rapidly, and when a dried moss is dipt in water, it very soon resumes the freshness and appearance of life. It is to be observed, however, that those parts only which are moistened resume their wonted vigor, while the remainder continues dry, as before. The internal structure, of mosses is entirely cellular, and they are destitute of stomata. Their parts of fructification are double, terminal or axillary, on the same or on different stems. The female flower consists of a sort of urn, sittlated upon a long pedicel, closed above with a lid, and covered with a sort of hood or veil: the lid is usually deciduous; and when it has fallen, the internal border of the urn is seen to be provided with one or two membranes, which terminate in regular teeth, the whole appearing like a fringe. In one genus the teeth are wanting; but when present, they are always in number four, or one of its multiples. In some instances, the teeth are divided half way by a fissure. The seeds are very small, globular, exceedingly numerous, and reddish or brown at maturity: according to Hedwig, they are attached to the sides of the urn. Mosscs are found in cool, airy and moist situations, in woods, upon the trunks of trees, on old walls, the roofs of houses, &c. They grow in tufts, forming carpets which often cover a considerable extent of ground. Some of them are entirely aquatic. About

800 species are known, which are now distributed into several genera. They are most numerous in the temperate parts of the earth, and especially in mountainous From the situations in which they are found, they are frequently exposed to be dried up during the summer; but a slight rain quickly restores their usual freshness. The term moss is often, but im-

properly, applied to lichens.

Mossor, Heury; an eminent tragic actor, born in Ireland, in 1729. He was the son of a clergyman who held a rectory in the province of Connaught, and was educated at Trinity college, Dublin, where he took a degree. He made his first appearance on the stage at Dublin. He afterwards removed to London, where, next to Garrick and Barry, he was esteemed the principal tragedian of his time. In 1761, he became manager of one of the Dublin theatres, in opposition to Barry and Woodward; and the rivalry proved ruinous to all parties, and especially so to Mossop, whose vanity and intemperate conduct having at length excluded him from the trious Pole, entitled to an honorable place exertion of his professional abilities on the metropolitan stage, he was reduced to great distress, and died in absolute penury,

at Chelsen, in November, 1773. Moss-Trooper; the usual appellation says Scott, note 13 to canto first of the Lay of the Last Minstrel) of the marauders upon the borders [of England and Scotland]. Long after the union of the crowns, the moss-troopers, although sunk in reputation, and no longer enjoying the protext * of national hostility, continued to pursue their calling. 'Fuller says, "They are called moss-troopers because dwelling in the mosses, and riding in troops together. They dwell in the bounds or meeting of the two kingdoms, but obey the laws of neither. They come to church as seldom as the 29th of February comes into the Kalendar. They are a nest of hornets; strike one, and you stir all of them about your cars. Indeed, if they promise safely to conduct a traveller, they will perform it. with the fidelity of a Turkish janizary; otherwise, we be to him that falleth into their quarters." Speaking in reference to his own time, he says, "They amounted, 40 years since, to some thousands. They compelled the vicinage to purchase their security by paying a constant rent to them. When in their greatest height, they had two great enemies, the lans of the land, and their oppressors. He was successively a the land William Howard of Naworth. He member of the provisional council, the sent inapy of them to Carlisle, to that place great council, and the council of war; and, where the officer doth always his work by

worthy lord's severity, that he made a thorough reformation among them; and, the ringleaders being destroyed, the rest are reduced to legal obedience, and so, I trust, will continue." (Fuller's Worthies of England, page 216.) The last public mention of moss-troopers, says Scott, occurs during the civil wars of the 17th cen-

curs during the civil wars of the 17th century, when many ordinances of parliament were directed against them.

MOSTARABS. (i.e. Arabia.)

Most Curist MAJESTY; a title borne by many bigs of France, as by Pepin the Short, but which was first solemnly conferred of them by pope Paul II, in 1469. According to some, pope Pius II avec this title to Louis X L to atone for II gave this title to Louis XI, to atone for his refusal of the request of the king that, as sizerain of Naples, he would assist prince John of Calabria, the kinsman of Louis, against Ferdinand of Naples.

Most Faithful Majesty is a title which was given by Benedict XIV to John V of

Portugal.

Mostowski, count Thaddeus, an illusamong the patriots of his country, was born at Warsaw, in 1766, and, in 1790, was nominated castellan, by virtue of which office he had a seat in the senate. At this period he established a national gazette, which produced a powerful effect on the public mind. On the proclaiming of the constitution of 1791, he became a member of the constitutional committee: but when, in 1792, Stanishus was compelled by the Russians to accede to the confederation of Targowitz, and consequently to the overthrow of Polish liberty, Mostowski quitted his country, being, it is said, despatched on a mission to Par's by his fellow-patriots. At Paris, he became connected with the Girondist party, which then held the reins of government, and it is believed that he obtained a promise of assistance for the Poles; but the triumph of the Jacobins, on the 31st of May, put an end to his prospects. He even became an object of suspicion to the dominant faction, and narrowly escaped being guillotined. On his return to Peland, he retired to his estate, but was immediately arrested by the Russian minister, and confined in his own house for three months. Having at length recovered his freedom, he took an active part in the efforts which were made by his countrymen to expelafter the capture of the suburb of Praga daylight. Such was the success of this by Suwarrow, when no hope was left of .

who yet remained, with a train of 100 pieces of cannon, and, by a forced march through Germany, to join the French army on the Rhine. The plan was adoptmy on the kinne. The plan was adopted, but circumstances prevented it from being carried into execution. He refused to fly from Warsaw, hd, in conjunction with Ignatius Potockia was employed to negotiate the surrende of the capital to Suwarrow, who pledge himself that persons and property slightly be respected. Mostowski was nevertheless seized and sent to St. Petersburg, where he remained in confinement till he was liberated by Paul I. From that period till 1805 he lived on his estate in Poland, dividing his time between agriculture and literature. He became a member of the Warsaw literary society, and published 26 volumes of a beautiful edition of the Polish classical authors. In 1805, he revisited France, and, in 1809, bought an estate in that country, on which he resided till 1815. It is probable that he concurred in the measures which were taken in 1807 and 1812 for the liberation of his native land; but his name was not brought before the public. In 1815, the emperor Alexander recalled him to Poland, and appointed him minister of the home department and of police. Count Mostowski is extensively versed in diplomacy and in literature, and: speaks and writes with elegance several of the European languages.

Mosul, or Mossoul; a city of Turkey in Asia; capital of a pachalic included in the pachalic of Bagdad, in a pain on the west bank of the Tigris; 240 miles cast of Aleppo, 480 west-north-west of Ispahan'; lon. 42° 8' E.; lat. 36° 20' N.; population, according to Olivier, about 70,000; 25,000 Arabians, 16,000 Turks, 15,000 Kurds, 8000 Armenians and Nestorians: e according to others; 35,000. rounded with walls and ditches, and defended by a castle. Almost all the houses are built of stone. The Tigris is deep and rapid, and is crossed by a bridge of boats. The air is healthy in spring, hot in summer, feverish in autumn, and inconveniently cold in winter. The inhabitants consist of Arabians, Turks, Persians, and Kurds, all which languages are spoken. The Nestorian patriarch of Syria resides at Elk-, tesch, near the town, where also are found many Christians, Armenians, Greeks, and Maronites. This city is very large, and

The state of the state of saving Poland, he proposed to his collegues a scheme which could have been conceived only by a man of courage and large, and well supplied. The commerce talent. It was to collect the 25,000 men is considerable, and there are manufacis considerable, and there are manufac-tures of leather and cotton, particularly muslins, said to be named from this place. The town is surrounded by a strong and high wall of stone, but all the space enclosed is not occupied with houses, and many places are covered with ruins, which show that it was once more populous than it now is; however, the inhabitants carry on considerable manufactures of cotton. Merchandise from India is brought hither by the way of Bassora, and European goods by the way of Aleppo. About a mile from Mosul, on the opposite bank of the river, are mounds, similar to those of Babylon, supposed to be the remains of ancient Nineveh.

MOTANABBI, Abul Tayib Ahmed al; a celebrated Arabian poet, born at Cufa in 915. He studied at Damascus, and applied himself especially to grammar and the belles-lettres. At length, being inflamed with a passion for poetry, he gave himself up to the cultivation of that species of literature with the utmost enthusiasm, and professed to believe that he was divinely inspired. He aspired to become the rival of Mohammed, and, by the charms of his versification, seduced a multitude of the Arabs to become his disciples. The governor of Emesa stopped the progress of the new sect, by seizing their chief, and dispersing his followers. Motanabbi, reduced to reason by confinement, renounced his chimerical pretensions to inspiration, and, on regaining his liberty, applied himself wholly to poetical composition. He was entertained at the court of the prince of Aleppo, whence he removed to Egypt, and afterwards to Shiraz, where he was loaded with benefits by the sultan Adadodowla. He was at length. killed by robbers in crossing the descrt to visit his native country, in 965. A meens, may be found in Ouseley's Oriental Collections. His Divan (q.v.), a collection of 289 poems, has exercised the industry of more than 40 commentators. Hammer first gave a complete translation of them (Vienna, 1824), with notes. He was called in the East, the sultan of poet-

ry. (See Arabian Laterature)
MOTET (from the French) formerly signified a studied composition enriched with all the beauties of the musical art. At present, the name of motet is given to every composition set to Latin words; contains many handsome buildings, exclu-, such as hymns, psalms, or any small por-

tion of scripture, in the Roman Catholic church. In Germany, the name is given to figured musical pieces, generally intended only for singing, the subjects of which are passages of the Bible. There are some for four, five, six voices. The motets of France and Italy are always accompanied by instrumental music. The subjects are also passages of the Bible. generally in rhymed Latin verses, whilst the words of the German motet are in prose. The German molet is chiefly confined to the Protestant part of Germany. The two Bachs (q. v.) may be said to have carried the German motet to its highest point.

Mora (phalana, L.). These numerous' and beautiful insects, which are seldom seen except in the evening or night, were included by Linnaus in the genus phalana. Since his time, however, naturalists have divided them into an immensé number of. different groups. (See Entomology.) All the. diurnal butterflies are provided with a tongue for gathering their food; but a great proportion of the moths are destitute of that organ, whilst in others it is exceedingly small. A considerable number of them, therefore, must pass the whole of their winged state without food. The caterpillars, from which the various species of the perfect insects are produced, exhibit nearly the same variety of appearance as the moths themselves. Some are large, and others extremely minute; many are furnished with ten, others with twelve or fourteen feet, whilst the largest have six-All these caterpillars, after having shed their skin one or more times, spin for the insolves the materials of a habitation, in which they are to undergo their transformations.—The most remarkable and useful of these caterpillars is the silkworm (q. v.), originally a native of China and other Eastern countries, from whence it was imported into Europe during the reign of the emperor Justinian. If, however, one species ministers to our comfort and luxury; there are others which are capuble of committing great devastations among all articles composed of woollen or fur, &c. Thus the tinea sarcitella destroys woollen clothes; the T. pellionella attacks furs; the T. Ylavi-frontella damages collections of natural history; the T. granella commits great ravages among grain, &c. 'The clothes-moth itself is perfectly innocnous. The devastation is committed by the caterpillar. This begins to form a nest as soon as it quits the egg. For this pur-pose, having spun a thin coating of silk rience. If we see that a body changes around its body, it cuts filaments of wool or its external relations, we conclude that it fur close to the thread of the cloth, and ap- moves: its continuance in the same rela-

plies the pieces to the outside of its case. This covering it never leaves, except in cases of urgent necessity. When it wishes to feed, it puts out its head at either end of the case, as may be most convenient. When it wishes to change its position, it protrudes its head and about half its body, and thus moves forward, dragging its case by fixing its hinder legs firmly in it. When, from its increase in size, the case becomes too small, it makes an addition to it at each end. This operation can be readily traced by transferring it from cloth of one color to another, when each addition will be conspicuous, from the difference of color. After changing into a chrysalis, it remains quiescent for about three weeks, when a small nocturnal moth, of a silverygray color, comes forth, but too well known to almost every mistress of a family. The usual mode of destroying these pests is by oil of turpentine, camphor or tobacco, all of which will answer the purpose to a certain degree; but all have the disadvantage of communicating odors to the clothes, to which they have been applied, extremely disagreeable to many persons. As moths never attack unwashed wool, and even abandon the places where it is kept, this substance may be advantageously substituted for the above-mentioned articles, by placing it in layers between clothes, or keeping small parcels in the corners of shelves or drawers. For this plan to be effectual, the wool must be used as it comes from the back of the animal, before any cleansing process has been employed that will deprive it of its natural oil or smell.

Motherwort (leonurus cardiaca); a labiate plant, abundantly naturalized in the U. States, and growing in waste places. The stem is quadrangular, rigid, and the flowers are faint ourple and very hairy. The calve is terminated by sharp points. An infusion is a popular medicine among the country people, but is much less used now than formerly. Its properties are similar to those of other labiata.

Morion. The motion of a body is the change of its place in space. All changes in the material world consist of motion. The life of the organic creation, and the action of inorganic bodies, consists in motion: what we call rest, is only relative. Experience alone convinces us of the motion of bodies in space. Zeno of Elea, endeavored to prove this fundamental idea of motion to be contradictory to itself, in order to overthrow the testimony of expe-

ation or relation of bodies we are often deceived, and confound rest with motion. In some cases, it is easy to perceive the error; in others, it is so difficult, that many centuries have been necessary to dispel the illusion; for instance, in relation to the earth and the sun. -In motion, we must consider the cause, the moving body, the direction, the path described, the time, the velocity, and the quantity. The mass of the moving body must be taken into considcration, since the quantity of motion depends on the quantity of matter. move twice as much matter, requires twice as much power. The direction of the motion of a body is the line along which a moving point proceeds, either for the whole or a part of the way. If all the points of a body move in the same direction, it is only necessary to observe the motion of a single point. The line described by this point is the path of the moving body. This path itself, if in a straight line, represents the direction of the motion; if in a curved line, the direction at every point of the curve is determined by the tangent to this point; that is, this tangent shows the direction of the moving body at that point in which it would continue to proceed, if it cersed, changing its direction. It all the points. of a body do not move in the same direction, the motion of each point, in particular, ought to be observed; and thus we may consider every motion as the motion of a point. By the space described, we understand the distance passed through by the moving point. Since we always consider the motion of points, this space is represented by a line; and thus the observation of motion becomes geometrical. Time is necessary for motion, even for the smallest. By the comparison of the space described, and the time in which it is described, we find the velocity. One body moves quicker than another, if it decribes in the same time a larger space, or the same space in a less time. By the quantity of motion we mean the velocity combined with the quantity of matter. ·To move two pounds requires twice as much power as to move one pound with the same velocity. To move a body with the velocity 2, also requires twice as much power as to move the same body with the velocity 1. Hence it follows, that to move two pounds with the velocity 3, requires six times as much power as to move one pound with the velocity 1. ... Motion may be considered under several different views. With regard to

tions is called rest. By a change of the situ- change of position, by which it is ascertained, it is either absolute or relative. a body passes from one place to another, this is called absolute motion; it is relative if we consider the objects to which we refer the motion of the observed body, whether in motion or at rest, as fixed points. With regard to change of position, the motion is further, either common or proper; finally, either apparent or real. With regard to the powers or causes, which produce motion, it is either simple or compound; simple, if it is produced by a single power, or by several powers acting in the same direction; compound, if several motions meet, the various directions of which form angles with each other. With regard to the direction, the motion is either in a straight or a curved line; with regard to the velocity, either uniform, or accelerated, or retarded, and the accelerated motion again is either uniformly or variably accelerated; and the. retarded motion cither uniformly or variably retarded. (See Mechanics.)

Mormor (prionites). These are beautiful birds, about the size of a jay, with a long tail, the two middle feathers of which are destitute of vanes for about an inch, at a small distance from their extremity. This conformation was supposed, by some naturalists, not to have been the production of nature, but to have arisen from a ca-price of the bird in tearing away the vanes, as, in the young birds, these feathers are entire: this supposition, however, is wholly erroneous. They inhabit South America, and are very difficult to keep in a tame state, from their living on certain kinds of insects, which are not easily procured. They are very shy and timid, and if taken when old, invariably refuse all kinds of food. They are solitary, never being seen in flocks, and but seldom even in pairs. Their usual places of resort are. the depths of large forests, where they may be observed among the lower branches, or on the ground. They fly very bully, and hence build their nests in the ground, using the deserted holes of some of the The nest consists smaller quadrupeds. of a few withered blades of grass, on which they deposit two eggs. The principal species are the blue-headed motinot (P. momota), and the red-headed (P. dombey).

Morre, Antoine Houdar de la, a distinguished author, was born at Paris in 1672, and studied under the care of the Jesuits. His father, a hatter, who owned a small estate at Troyes, called la Motte, destined him for the law; but the son had a strong inclination for the theatre, and, after

having appeared in some of Molière's plays at some private theatricals, he brought out his first piece, Les Originaux, in 1693, with so little success, that, from chagrin, he determined to join the Trappists. The celebrated abbé Bouthillier do Rancé (q. v.), learning his resolu-tion, dissuaded him and a companion, who meditated the same act of folly, from taking this step. La Motte returned to Paris, and began to write for the opera with more success. He brought out, a great number of pieces, and was soon allowed to be inferior only to Quinault. He next ventured into the field of comedy and tragedy. Though some of his productions were unsuccessful, his tragedy Ines de Castro met with a most favorable reception, notwithstanding its many faults. His Odes and Fables were also much ad-Having undertaken a translation of the Iliad, without a competent knowledge of the language, he involved himself in a dispute with Madame Dacier, on account of some remarks, in his introductory essay, derogatory to the merits of the poet. His Réflexions sur la Critique, in reply to the violent work of Madame Dacier, Des Canses de la Corruption du Gout, was written in a tone of moderation : the dispute was, however, continued (by L# Motte in his Discours sur la Tragédic, sur l'Éloge, sur l'Ode, sur la Fable, &c.) until Fairlon, who was called in as arbitrator, decided the question; and J. B. Rousseau revenged the honor of the Grecian bard, by a sovere epigram on his detractor. Other paradoxical opinions (for instance, his objections to verse, although he had almost always written in verse, and with more success than in prose) involved him in numerous disputes, and drew upon him many epigrams. La Motte always kept his temper in these controversies, and, although among the most admired writers , of his day, never indulged in an acrimonious tone towards his adversaries. During the last twenty-four years of his life, he was blind, and his health was very feeble; but he preserved his serenity and kindness of temper, and died in 1731.

MOUTE, COUNTESS DE LA. (See Lamotte.)
MOULDINGS. (See Architecture, volume

i, page 338.)

MOULTRIE, William, a major-general in our revolutionary war, was born in England, but came to South Carolina at an early age. He served with distinction as a volunteer in the Cherokee war, in 1760. He joined a second expedition under colonel Montgomery, and, in 1761, commanded a company in a third, that forced the Indians

into terms of peace. Ho was among the most strenuous in asserting the liberties of his adopted country against the pretensions of Great Britain. We find him associated with the Pinckneys, Rutledges, Middletons, in the first stages of the contest, and sharing with them the confidence of his fellow-citizens. In the beginning of the war, he was colouel of the second regiment of South Carolina, and a member of the first congress of that province. His defence of Sullivan's island, in 1776, with 344 regular troops, and a few militia, and particularly the repulse of the British in their attack upon the fort, on the 28th June; won him much honor. He received the thanks of congress, and the name of Moultrie was bestowed on the fort. He was soon after raised to the rank of brigadier-general, and put upon the commental establishment. At Beaufort, in 1779, he repulsed the British at all points, with a handful of militia; and he seconded gov-. ernor Rutledge efficaciously in collecting the yeomanry for the defence of Charleston, when the British general Provost made a demonstration against that place. About this time, he received a commission of major-general in the army of the U. States. His gallantry and conduct were signalized again in the battle of Stono. and in the pursuit which he led as far as Sheldon. He was second in command, under general Lincoln, at Charleston, when the place was besieged and captured by sir Henry Clinton. Moultrie remained a prisoner in the hands of the enemy, until he was exchanged at Philadelphia near the close of the war. On his return to South Carolina in 1782, he was halled with the most cordial respect and gratitude by his fellow-citizens, who elected him governor of the state. He died at Charleston, Sept. 27, 1805, in the 76th year of his age. He compiled two volumes of Memoirs of the American Revolution, as far as North and South Carolina and Georgia had a part. They consist chiefly of letters written by civil and military officers during the war. Major Garden has included, in his Anecdotes, &c., Moultrie's lofty reply to lord Charles Montague, through whom brilliant offers were made to hirp, as temptations to desert to the British side.

MOULTRIE, FORT. (See Sullivan's Island.)
MOUND, in heraldry (from mundus, the
world); a globe, having a cross on the top.
Many heraldic eagles, as those of Austria,
Russia, Prussia, have in one claw the
sceptre, in the other the mound.

Mounier, Jean Joseph, secretary of

the provincial estates of Dauphine, deputithe place of chief-justice in Canada, with ty of the third estate of this province to a considerable salary, which, however, he the states-general, a man of uncommon refused, as he had not relinquished the born in 1758, at Grenoble, where his father was a merchant. He was educated by a severe pedantic instructer, whose obstinacy and had humor exposed him to much suffering, and was afterwards refused admission into the military service, because he was not of noble birth, so that he early imbibed a hatred against oppression and privileged orders. Disliking the · commercial profession, he devoted himself to the study of law at the university of Orange, and, after three years, became an advocate. At the age of twenty-five years, he purchased the office of a judgeroyal, which he exercised for six years with much reputation. His open declara-tion against the abuses of the stamp and land tax, as they then existed in France, and against the mal-administration of the finances, gave one of the first impulses, in 1787, to the general opposition to these oppressive measures; and when, in the following year, the severe and imprudent proceedings of the government occasioned disturbances in Grenoble, the public voice selected him as umpire. In the first deliberations of the national assembly (of which he was a member), he was conspicuous. He was one of the principal actors in the scene of the tennis-court, July 20. Until the events of the 5th and 6th of October, he took an active part in all the proceedings of the constituent assembly, and the resolution and honesty with which he conducted in the presidency of this body, under circumstances of great difficulty, protecting the interests of the nation, and repelling the unjust attacks on the royal family, secured him' the esteem of the better part of the community. But when anarchy at length prevailed, and no hope remained of restraining the fierceness of unbridled pussions, he retired from public life to the Dauphine, and thence, in November, 1789, demanded his dismission. At the same time, he published an exposition of his conduct-. Exposé de sa Conduite et des Motifs de son retour on Dauphine, At Geneva, to which he afterwards retired to escape the persecutions of the Jacobins, he published the Appel au Tribunal de l'Opinion publique—a work written with freedom and boldness, in which he described the events of October 5 and 6, and set forth the causes to which he attributed them! In 1793, he went from Switzerland to London, where government offered him

Charles on Section 1

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. . virtue and zeal for the general good, was hope of returning to his country; and Geneva, where he had till then resided, having been involved in the revolutionary disturbances, he retired to Germany, with his family, in 1795, where the duke of Weimar received him kindly, and gave him the castle of Belvedere (near Weimar). that he might establish there an institution for the education of young men from the higher ranks (chiefly young Englishmen). Mounier here wrote his work De l'influence attribuée aux Philosophes, aux Francs-Macons et aux Illuminées sur la Revolution de France, which appeared Tubingen, in 1801 (Paris, 1821). After the 18th Brumaire, he returned to France, was nominated, in 1802, prefect of the department lile and Vilaine, and, in 1804, member of the conservative senate, and in the following year, was made a member of the council of state: He died January 26, 1806. His son, Edward Claude Philip, baron (born 1784), was auditor of the council of state under Napoleon; in 1809, became secretary of the cabinet, and, in 1810, was made maitre des requêtes. In 1815, he entered into the chumber of deputies, and, in 1817, was made counsellor of state, and president of the commission appointed to settle the fiquidations with foreign powers. In 1819, he was made peer.

Mountains; the largest elevations of the surface of the earth. Hills are distinguished from mountains by inferior height. Several mountains together, which cover a plain, are called a group of moun-'ains; mountains that form' a series of several miles in length, a chain or ridge of mountains. Single mountains, rising out of a plain country, are seldom met with. The cavities between the mountains are termed valleys. The sea-coasts are generally the lowest part of a country, which gradually rises, so that the centre of a continent is the highest, and is covered with considerable mountains. The chief mountains are connected in extensive chains all over the surface of the globe. The Ural mountains, which separate Asia from Europe, and send forth a branch to-wards Nova Zembla, are connected with the Severhoi or Sevous ridge, that forms the boundary between Norway and Sweden, and a part of Russia. Another chain stretches from the northern part of India to Thibet and Cashmere, where it forms the highest region, not only of Central Asia, but of the known world, running 200 22

westward through Persia, and eastward through China. From the highest elevation of Northern Asia, the Bogdo mountains, which separate the seats of the Calmucks from those of the Mongols, a chain of mountains under the name of Mossart runs southward to Thibet: another, under the name of Alak, extends towards the west through the deserts of Independent Tartary and Bucharia, and joins the Ural mountains; a third, under the name of Zangai, in Mongolia, stretches eastward, then, turning, forms Corea and the cliffs and islands toward Japan: a fourth chain consists of the Altai mountains, which border on Siberia, from the Irtish to the Amour. The branches of thesé great Asiatic chains are innunerable. Between the Caspian and Black seas, the Caucasus (q. v.) is situated. - It sends off branches through Asia Minor as far as Arabia, which form the ridges of Taurus, Lebanon and Sinai, while others pass round the Black sea to Europe. From the Black sea, between Moldavia, Wa-lachia and Transylvania, the Carpathians extend through Poland and Hungary, and, in Silesia, join the mountainous regions of Germany. The Sudetes run between Bohemia and Silesia, sending forth branches to the north and west, through Lusatia to the Saxon Erzgebirge, and Voigtland. The Fichtelgebirge and the Thuringerwald, or Forest of Thuringia, together with the Eichsfeld and the northern Hartzgebirge, extend through the centre of Germany. The most elevated countries of Europe are Switzerland and Savoy, whose Alps (q. v.) are connected with the neighboring chains of Germany, Italy and France. A branch, united with them, the Apennines, running through all Italy as far as Reggio, is probably connected, by a submarine chain, with the mountains of Africa. Rhætian Alps stretch between the Grisons and Milan; the Tridentine between the Tyrol and the territories of Venice; the Norican between the Tyrol and Salzburg: and those of Carinthia between Carinthia, Carniola, Friuli and Istria. On the west, some branches of the Alps extend The Pyrenecs form the into Erance. frontier wall and the principal elevation chain called Atlas is the most famous. There is a distinction made between the Great and Little Atlas. The former, which is, perhaps, connected with the , mountain chains of Arabia, runs westwardly to Barbary, separating it from of these chains is in the middle; those Biledulgerid; the latter reaches from which rest on them diminish in height in vol. 1x.

Tunis to Gibraltar. In addition to these, some less celebrated chains extend along the Nile, through Upper Egypt, Nubia and Abyssinia, to unknown regions in the interior of Africa, where they are connected, with the Mountains of the Moon. Thence some ridges stretch to the south of Africa, and join, perhaps, the Snow mountains, which take their course from the cape of Good Hope towards the interior. Next to Asia, America contains the highest mountains. With the Cordilleras (q. v.), along the western coast of Chile and Peru, other chains of mountains are connected, running through the rest of South America. One ridge extends through the isthmus of Darien to North America, where it runs northward along the western coast, sending off different branches castward into the interior, which, in all probability, join the mountain ridges of Northern Asia, in the extreme north. The highest known summits are of the Himalaya in Thibet (particularly the Dholagir, or White mountain), which has been made, by one measurement, 26,872 feet, by another 28,015 feet high. The perpendicular heigh above the level of the sea, of a peak belonging to the Mustag mountains, in Central Asia, measured by the English colonel Crawfurd, is about 26,500 feet; that of Chimborazo, according to Hunrboldt, 21,440; that of Mauna Kaah, on the Sandwich islands, 18,400; of Cayambourco, 20,000; of Antisana, 19,150; of Pinchinca, 15,940 (all three near Quito); of the farm-house of Antisana, the highest place inhabited by men, 13,434; of the city of Quito, 9560; of Mont Blanc, 15,680; of Ophyr, in Sumatra, 13,842; of Loucira, in the French department of the Upper Alps, 14,450; of Aiguille de l'Argentière, 12,804; of St. Gothard, 9075; of Æma, 10,936; of Farca, 14,040; of the Brocken, 3716; of the valley of Chamouni, 3463; passage of Mont Cenis, 6773; of the city of Geneva, 1220. The heights of these mountains are inconsiderable in proportion to the great mass of the earth, the spherical form of which is not essentially altered by them; for the height of Chimborazo is not, to the diameter of the earth, in the proportion of I to 1000. The form of mountains is generally coniof the Spanish peninsula. In Africa, ther cal, that is, gradually tapering from the base upward, and terminating in a more or less pointed peak. The Alps, in Switzerland and Savoy, consist of an enormous collection of different mountains, disposed in several parallel chains. The highest

proportion as they receile from the main branch. The highest ridge consists of steep rocks, which, with the exception of the declivities, are every where covered with ice and snow. Between the masses of rocks, that crown the highest chain, in pyramidal forms, are valleys, in which the snow, and ice proceeding from the halfmelted snow, never thaws, even in summer, because of their high situation. Lower down, on both sides of the main branch, long wide valleys descend, which in summer are decked with a beautiful green, and, where their situation is not too high, are partly planted with corn and fruit-trees, partly used for pasturage. To these green vales deep and narrow passages descend from the high rocky valleys. These passages are filled with everlasting ice, and bear the name of glaciers. (q. v.) Those chains of mountains which border on the main chain, present the same appearances, only on a smaller scale; for their tops likewise consist of pointed rocks, separated by such deep and narrow passages, which, even in summer, are covered with ice and snow, and to which succeed verdant valleys. The farther the chains recede from the main chain, the more do they diminish in height. Every thing hears a milder aspect. The tops' of the single mountains are more rounded; the mountains themselves are decked with a beautiful green, and, by degrees, lose themselves in the plains. Countries covered with high mountains present, in the summer, different climates at different elevations, within a very narrow compass. We may ascend gradually from flourishing and delightful valleys, decorated with corn, fruit-trees and vines, to pastures covered with odoriferous Alpine plants, and, near the declivities, with evergreens, and perceive the vegetation diminishing and dwindling as we advance, till, at last, all organic life ceases, and the cold prevents all further progress. The elevation of this region of perpetual winter is different in different latitudes; it is higher in warm countries, and lower in cold climates. That the air is colder on the mountains than it is in the plains, is evident from what has been said. This is to be attributed partly to the reflection of the sun's reys from the surface of the earth in plains, and its consequent accumulation n the lower strata of the atmosphere, but partly also to the greater density of the air, which is susceptible of being warmed in a higher degree than the thinher air of the mountains. That the air

true; but that it is healthier also, can be admitted only in regard to a moderate height. At a great height, an indescribable oppression, combined with great weakness, seizes upon the whole body-a plienomenon which Saussure attributes to the diminished pressure of the air upon the vessels, and their consequent loss of clas-The interior of mountains is known only so far as it has been laid open to the miner in working mines.-See Dennix's Tableau orographique de l'Europe (Paris, 1826, 2 vols.); see also the articles Alps, Andes, Cordilleras, Himalaya, &c.

Mountain Dew; a name given to genuine Scotch whiskey, because the Ilighlanders often distil it in the moun-

tains, to evade the duty.

Mount Augurn. [The novelty of the following undertaking, as far as this country is concerned, and the advantage which would result from similar establishments in the neighborhood of all our large cities. have induced us to allow more space to the following account than would otherwise have been deemed proper.}-The Massachusetts Horticultural Society has commenced the establishment of an experimental garden and rural cemetery, in Cambridge, at the distance of four or five miles from Boston, on a spot to which has been given the name of Mount Auburn. The tract which has been purchased for these objects contains over 80 acres of beautifully diversified ground, embracing all the requisite varieties of soil. About 30 acres are to be appropriated for the experimental garder, which is intended for the improvement of horticulture, in all its departments, ornamental as well as useful. Compartments are to be assigned for the particular cultivation of all the families of trees and plants which will endure the climate of New England, and for the location of green-houses, stoves, vineries, orangeries and hot-beds, remainder of the land, exceeding 40 acres, has been appropriated for the cemetery, which is to be kild out in conformity to the modern style of landscape and picturesque plantations, and to be intersected by numerous carriage-avenues and paths, on the borders of which are to be burial lots, containing 300 square feet. These are to be sold to individuals, who will be at liberty to embellish them in such manner as may be most agreeable to their taste; and the funds thus obtained are to be used for completing and maintaining the whole establishment. . On the heights and in other conspicuous situations, sites in the mountains is purer is certainly will be reserved for monuments and ceno-

taphs to illustrious men. It is not intended that there should be any tombs, but that graves, which may be formed of bricks, and arched, should be substituted, and one family monument placed in the centre of the lots, which will be at least 20 feet long, and 15 feet wide. cemetery was consecrated on the 24th of September, 1831, when an eloquent address was delivered by the honorable judge Story, to numerous auditors, in a fine natural amphitheatre, constituting part of the ground. A plan for laying out the ground has since been matured. As the tract which has been designated for the cemetery is abundantly covered with forest trees, it only requires the avenues to be completed, the borders planted with ordinmental shrubs, bulbons and perennial flowers, the underwood cleared out, the, fences, gateways, and other edifices, crected, to prepare the ground for the uses designed. The most lefty eminence is 125 feet above Charles river, which gracefully sweeps round its base. Here it is proposed to creet a tower, which will command an extensive panoramic view of the beautiful scenery around Boston. On a hill, opposite one of the chief entrances to the cemetery, is to be placed a small Doric temple, to be used as a chapel for the performance of funeral rites. Lodges for the keeper of the cemetery and ex-. perimental gardener, with green-houses, bridges, and numerous other edifices and structures, will be reared in different parts of the ground. The gateways are to be in the Egyptian style of architecture. about 30 feet high, formed of Quincy granite. With the view of fully meeting the exigencies of a dense and rapidly increasing population, it is intended that sites for single graves shall be designated in various parts of the cometery. It is by such means that Pere La Chaise, near Paris, has been rendered so interesting to travellers, and such a favorite place of resort for the inhabitants of the French capital. The garden of experiment will be prepared simultaneously with the cemetery; the nurseries will be established; the departments for culinary vegetables, fruit, and ornamental trees, shrubs and flowers, laid out and planted; greenhouses and vineries built; the small ponds and meadows converted into picturesque sheets of water, and the margin diversified by belts and clumps of our most splendid native trees and shrubs, while their surfaces may be spangled with the brilliant blossoms of the nymphea and the other beautiful tribes of aquatic plants. Washington. It is pleasantly situated in

Much interest has been taken by the neighboring community in the success of the plan, and the means afforded for its execution are such that it can be executed on a liberal scale.—Rural places of sepulchre were common among the ancients, who allowed no grave-yards within their cities. The Potters' Field was without the walls of Jerusalem, and in the Twelve Tables, it was prohibited to bury within the city of Rome. In the mountains near Jerusalem were the tombs of the wealthy Israelites; and in a garden near the base of Calvary, Joseph of Arimathea had prepared that memorable sepulchre, in which was laid the body of the crucified Messiah. The Greeks and Romans selected the recesses of wooded heights and secluded vales for places of interment. The catacombs of Thebes were in the gorges of the wooded hills, on the opposite bank of the Nile, and those of Memphis were beyond the lake of Acherusia. from whence the Grecian mythologists derived their fabulous accounts of the Elysian fields. The Athenians allowed no burials within the city. Illustrious men were buried in the Ceramicus-an extensive public cemetery, where were the academy and gymnasium, with their superb gardens. Even the Turks embellish their burial-ground with evergreens, and that of Scutari is one of the most interesting objects in the environs of Con-Throughout Europe there: stantinople. are many cometeries which are planted with trees and flowers. Besides that of Pere La Chaise, others have been formed in Liverpool and Manchester, and one is about being established in the vicinity of London, on a scale of magnificence correspondent with the wealth and extent of the capital,-Besides several miles of footpaths, there will be such an extent of carriage-avenues, in the grounds at Mount Auburn, as to afford a drive of three or four miles in extent, one of which reaches the summit of the highest hill. A map of the ground, drawings of the edifices, an account of the establishment, and judge Story's address; are to be published in a single volume.

Mount Hope, or Monte Haup; a hill in the township of Bristol, Rhode Island, two miles north-east of the town. It is of a conical form, with an acute apex, about 300 feet high, and affords a fine prospect. It is famous as having been the residence of the celebrated Indian sachem Philip'

(Metacoin).
MOUNT VERNON; the seat of general

Fairfax county, Virginia, on the south bank of the Potomac, nine miles below Alexandria, and 127 from Point Lookout. at the mouth of the river. The river is here two miles wide; and Mount Vernon is 200 feet above the surface of the river. MOURADGEA D'ORSSON, Ignatius, born in Constantinople, was descended from a rich Armenian family. He entered into the service of the Swedish embassy, at the Ottoman Porte, and by his talents attained the highest diplomatic honors. He was made charge d'affaires, knight of the order of Vasa, and, in 1789, minister plenipotentiary and envoy extraordinary. His knowledge of the Arabic and Turkish languages gave him the means of acquiring information respecting the Ottoman empire from the very sources. He resolved upon writing a history of Selim II; but this was superseded by his plan of giving a full picture of the Ottoman empire. To this work he devoted himself with the greatest zeal and perseverance, and with great difficulty succeeded in collecting the first authentic information from a prejudiced, servile and jealous people, respecting the national customs and habits, the interior of the seraglios, the mosques, and the private life of a Turk. With the materials which he had obtained, he proceeded to Paris in 1781, where he prepared his work for the press, and published it, in 1788 and 1789, in two volumes, under the title of Tubleau général de l'Empire Ottoinan. This work completely answered the expectations which had been formed . respecting it. The beauty of the typography and the engravings occasioned an expense which exceeded the proceeds of the sale; but D'Obsson, who possessell a large fortune, was willing to make sacrifices for the embellishment and perfection of his work. The revolution interrupted his literary activity, and he returned to Constantinople. Selim 111, who honored knowledge, allowed the two volumes which were published to be presented to him, and, far from being displeased at the disclosure of some secrets, gave orders to facilitate the learned writer's researches, by affording him the necessary information. After a long sojourn in Constantinople, D'Ohsson returned to Paris, where he found hardly any traces of his large property. Even the buildings where he had deposited the copies of his work, and the plates, drawings, &c., had been destroyed and plundered. Without suffering himself to be depressed by these misfortunes, he devised a still greater plan, which had in view a historical picture of

the whole East, and became entirely absorbed in his desire to execute it. In 1804. he had completed two volumes of his Tableau kistorique de l'Orient, when the war with Sweden made him apprehensive of, another interruption. He asked and received permission from his government to retire to the country. Here he continued to occupy himself on his undertaking during three years, and gave the fruit of 45 years' labor to the world, in a work which contains, in three separate divisions, a complete view of the Ottoman empire. These three divisions have the separate titles, Tableau historique de l'Orient (a history of all the nations under the Ottoman government), Tableau général de l'Empire Ottoman (a view of the laws, religion and customs,&c.); lastly, L'Histoire de la Maison Ottomane (from Osman I till 1758). The whole was hearly completed when interrupted by D'Ohsson's death, August 27, 1807. The last volume of this work, which comprises in the whole 7 vols., appeared in Paris, 1824.

Mourning. In most nations it is the custom of bereaved survivors to testify their grief for the less of friends or relatives by some external change of dress and deportment. Different nations have employed the same emblems as symbols of the most opposite states of the mind, being governed altogether by their previous habits and associations, so that the signs of mourning are very various. Thus some wear the hair long, others cut it off; some shave the beard, others allow it to grow. The Eastern nations and the Greeks cut off their hair; the Romans allowed the beard and hair to grow, in mourning. Different colors have been adopted as budges of grief; the ancient Egyptians wore yellow; the Ethiopians gray; the Roman and Spartan women white, which is still the color of grief in China and Siam; in Turkey, blue and violet; and in the other European countries, black are used for this purpose. Some have attempted to trace the associations by which the colors acquired their character to natural causes, but, it must be allowed, with little success. The Jews. in sign of grief at the loss of their relations, rent their garments, tore out their hair, and wore coarse garments of a dark color; they went barefoot, neglected their persons, and performed other acts of penance. The term of mourning with them was short. Among the Greeks and Romans, it was the custom to lay aside all ornaments of dress, to abstain from the bath, and other indulgences. The dress was also of a dark color (except with the women) and the period of mourning was about

a year. Among the ancients, as among the anoderns, public mournings were common on the death of a distinguished public benefactor, and in the time of the Roman empire, on the death of the emperors.

Mourzouk; the capital of Fezzan, in the kingdom of Tripoli; lat. 25° 54' N.; lon. 15° 51' E. It is the residence of the sultan of Fezzan, and is surrounded by walls twenty feet high and eight feet thick. The houses are of mud, and as rain is rare, Mourzouk is one of the are durable. greatest commercial places in Africa, forming the centre of communication between the central, northern and eastern regions of that continent. Caravans arrive yearly from Egypt, Tripoli, Bournou and Houssa.

Mouse (mus). This genus includes not only what are usually termed mice, but also the rats; and under the common name of mice are also understood several species of arvicola, &c. The common mouse (M. musculus) is not a native of this country, but was brought here by the early settlers, and has now extended, with the increase of population, to every part of the continent. There are several varieties, distinguished by their color, the rarest of which is 'the white. The mouse makes a nest not unlike that of a bird, and brings forth several times in a year, generally having from six to ten at each litter. When first born, mice, are naked and helpless, but in about fifteen days are able to shift for themselves. The mouse is capable of being tamed, and exhibits considcrable attachment to its keeper. As, from their numbers and depredations, they are extremely troublesome, several modes have been devised to destroy them; as cats, traps, poison, &c.—The American field mouse (M. leucopus) is very common in all parts of the U. States, and is the representative of the European species (.W. sylvaticus). They are very injurious to the farmer, from destroying great quantities of grain, which they hoard up; in a few nights they will almost ruin a This mouse is about three inches long, and has a streak of a mixed dusky and ferruginous color along the back; the tail is dusky above and white beneath. The move, at others, nearly all will be in momeadow mouse does not belong to the genus mus, but is an arvicola. This diminutive animal occurs in most parts of the U. States in vast numbérs, living in burrows made in the banks of drains or . During the warm weather, however, they make nests among the grass, very similar to birds' nests, and generally containing six or eight young

ones. In almost all grass fields when they are mown, small lanes or furrows may be seen among the roots of the herbage; these are the various commu-nications made by the field mouse with its nest. Notwithstanding they are preyed upon by owls, hawks, &c., they multiply excessively, and sometimes commit great ravages in the grass fields.

MOUSQUETAIRES DU Roi (under the old French régime); mounted companies of royal guards, splendidly equipped, and composed of gentlemen of noble extraction. One of the companies was called the mousquelaires gris, from the color of their horses being dapple-gray; the other the mousquetaires noirs, in which the horses were black. Their arms were a carbine, sword and pistols. They were instituted by Louis XIII, and served as a school to many of the most distinguished French commanders.

Mourn; in most animals, a cavity in the anterior part of the body, but very differently formed in different sorts of animals. It commonly serves for the reception of food, and is connected by a canal with the interior parts of the body, where the food is assimilated. In the higher orders, it is used for mastication, the emission of sound, deglutition, respiration, suction and taste, being connected with organs which perform those processes. The lower jaw only is movable in this division. Some of the lower orders seem to be without a mouth, and to nourish themselves by absorption. In birds, the external parts of the mouth are a hard, bony substance, and it is not fitted for suction. In insects, the form of the mouth is very various.

Moving Plant (hedysarum gyrans). This plant is remarkable for the spontaneous motion of its leaves, which does not appear to depend on any external cause that we can determine. No sooner has the plant acquired its ternate leaves, than they begin to revolve this way and that; and this motion continues during the whole course of its vegetation. The field of newly planted . Indian corn. . whole plant is very seldom in motion at one time; one leaflet turns frequently, while the other, on the same leaf-stalk, is at rest; sometimes a few leaflets only These movements are irregular tion, both in time and in their direction, and occasionally, in a very hot day, the plant is entirely at rest. A high wind will often put a stop to these movements, but they continue both in the night and during rain. We are unable to excite them by touch, irritation, or any other art that we know of. The plant is a native of the

Basin of the Ganges, and is by no means made such progress on this instrument, conspicuous in its appearance. It belongs to the leguminosa, and has a jointed pod, purple flowers, and ternate leaves, the lateral leaflets of which are comparatively very small.

Moxa; a Chinese word adopted into the European languages, signifying a lanuginous or cottony substance, which is . burnt for the purpose of cauterizing the The Chinese and Japanese prepare their moxa from the down of the inugwort (artemisia Chinensis).

MOZAMBIQUE. (See Mosambique.) Mozart, John Chrysostomus Wolfgang Amadeus; the great German composer, born at Salzburg, 1756. At the age of four years, his father commenced teaching him some minuets and other small pieces on the harpsichord. He only needed half an hour to play a minuet with perfect correctness and ease. From this period, he made rapid progress, and, in his fifth year, composed little pieces, which he played to his father, who wrote them down. He had previously been so much delighted with all infantile games, that he would forget his meals for the sake of playing; but from the time when he commenced learning music, he lost all taste for the usual amusements of childhood. Although he applied bimself with energy and activity to all subjects in which he received instruction, music was the occupation which seemed to completely till his soul. He advanced so rapidly as to surprise even his father, who was constantly with him. A coa cert for the harpsichord, which he wrote in his fifth year, perfectly according to the rules of the art, was so difficult that only the most practised performer could have played it. In his sixth year, Mozart had already made such progress, that his father was induced to take him and his sister Maria Anna, who was also a musical genius, to Munich and Vienna, where the little artists were introduced at the emperor's court. The unequalled execution of young Mozart excited universal · surprise, and the interest was heightened : by the fact that he was anxious only to, please real connoisseurs, and appeared. little affected by the opinion of the multitude. Thus he requested the emperor Francis to send for Wagenseil; this was done, and the child then performed one Till this period, he had only devoted himself to the harpsichord. In Vienna, he had a little violin given him; and when the family returned to Salzburg, he had

without the knowledge of his father, that, to the surprise of all the auditors, he performed the second violin in a trio, with the greatest precision. It was now evident that the whole soul of young Mozart was devoted to music; his mind was absorbed in it. Singular stories are told of his sensibility to the finest differences of . tones. Even at this early period, he had the greatest aversion to discords and rough, shrill tones, not softened by combination; as, for instance, the sound of the trumpet, which, on one occasion, so affected him, that he fell to the ground, This delipale, lifeless and convulsed. cate sensibility is apparent in all the works of Mozart. In 1763, when young Mozart was seven years old, the family made a journey beyond the borders of Germany, which spread his fame univer-In November of the same year, they arrived in Paris, where they remained six months, and were overwhelmed with attention and applause. Here young Mozart published his first sonatas for the harpsichord. In 1764, the family proceeded to England, and performed at court, the son playing on the king's organ with great success. At a public concert, symphonics of his composition only were performed. Here, as well as in Paris, compositions of Bach, Handel, &c., were laid before birn, all of which, though exceedingly difficult, he executed with the greatest truth at first sight. During his stay in England, he composed six sonatas, which were published in London, and which he dedicated to the queen. In 1765, the family went, by way of the Netherlands, to Holland, where Mozart repeatedly performed on the organ in the cathedrals and monasteries. In the Hague, he fell dangerously sick. On his recovery, he published six sonatas, and dedicated them to the princess of Nassau. At the beginning of the year 1766, he was again four weeks in Amsterdam, and proceeded thence to the Hague, to assist at the installation of the stadtholder. The family next visited Paris, and after having been twice at Versailles, proceeded, by way of Lyons, through Switzerland to Munich, where the elector gave young Mozart a theme, on which he composed in his presence without piano or violin, wrote down the music, and, to the astonishment of his concerts with surprising execution. of all present, executed after having finished it. In 1766, they returned to Salzburg, where they remained till 1768, and then made a second journey to Vienna. The brother and sister performed in pres-

ence of the emperor Joseph, who commissioned young Mozart to write the music for a comic opera—La Finta Semplice. It was applauded by Hasse, the master of the chapel, and Metastasio, but was not performed. At the consecration of the orphan's church, he composed the mass, the offertorium, and a concert for trumpets. and led the solemn performance—a bov of twelve years old-in presence of the inperial court. In 1769, Mozart, who had. been made master of the concerts at the court orchestra at Salzburg, commenced a journey to Italy, in company with his father. In Rome, he undertook to write down, on hearing it, the famous Miserère. annually sung in the Sistine chapel, during the holy week, and at that time kept very He succeeded so well, that when he sang it in company to the harpsichord, Christofori, who had sung it in the chapel, expressed his wonder. In Naples, the scholars of the conservatorio della pietà supposed that the magic of his musical talent was in the ring which he wore; he took it off, and then their astonishment increased. In Rome, the pope made him a knight of the golden spur; in Bologna, after having composed, in half an hour, an autipliony for four voices, in a room in which he was shut up alone, he was elected member and master of the chapel of the philharmonic academy. As he had engaged to compose the first opera for the carnival at Milan, he was compelled to refuse similar offers from Bologna, Naples and Rome. He arrived at Milan at the end of October, 1770, and there composed, in his fourteenth year, the first opera, Mithridates, which was performed December 26, and repeated more than twenty times in succession. In Veroua, he also received a diploma as member of the philharmonic society. Thus honored, he quitted Italy, where he was called il cavaliere filarmonico. When Mozart returned to Salzburg, in 1771, he found a letter, in which he was commissioned; in the name of the empress Maria Theresa, to compose the grand theatrical serenata Ascanio in Alba, for the celebration of the nuptials of the arch-duke Ferdinand. He undertook this commission, and, in August, returned to Milan for some months, where, during the festivities of the marriage, Mozart's serenata, and an opera composed by Hasse, were performed alternately. In 1772, he composed, in celebration of the election of the ! archbishop of Salzburg, the serenata Il Sogno di Scipione. In the winter of 1773, he composed there his opera Lucio Silla,

succession. After having completed a comic opera, called La Finta Giardiniera (1775); two grand masses; one screnata called Il re Pastore; and, in Paris, to which he had been invited a second time. ·a grand symphony for the concert spirituel, in that city, he went to Vienna, in his twenty-fourth year, where he engaged in the service of the emperor. He satisfied the great expectations which were raised by his early genius, and was the Raphael of musicians. But early as this great genius developed his powers in his own art, he remained a child in all the other relations of life) He never knew how to govern himself; he had no sense of the necessity of domestic order, of the value of money, and of the need of moderation in enjoyment. But this absent, distracted man seemed to become of a higher order when seated at the harpsichord. His mind expanded, and his attention was absorbed in the one object for which he was bornthe harmony of sound. He preferred to play in the night till early in the morning, if he was not prevented. He usually composed from six or seven in the morning till ten, and almost always in bed; during the rest of the day, he would compose no more, unless he had something to finish. Besides music, there was but one thing to which he appeared devotedbilliards. His exterior was not favorable; he was short, pale, and thin, and his features were not striking. Among the works of his which have remained on the German stages, and which will always be the delight of the German nation, is his Idomeneo, Re di Creta, composed 1780. at Of his Entführung aus dem Munich. Serail (his fourteenth opera in the order of time), which was performed at Vienna, in 1782, Joseph II said to the composer, "This music is too fine for our cars; there are a prodigious number of notes in it." "There are as many as are proper," replied Mozart. The Marriage of Figure met with the highest applause. It was performed during the winter of 1787, at Prague. At the same place, Mozart composed, in the same winter, his Don Juan, which pleased in Prague even more than the Marriage Nevertheless, this opera, on of Figaro. its first representation, was not favorably received at Vienna, although Haydn, on this occasion, pronounced Mozart the greatest of all living composers. After having written, in 1790, Cosi fan Tulle, and, during the illness which caused his death, 1791, the Magic Flute; La Clemenza di Tilo, and his famous requiem, he which was repeated twenty-six times in died, December 5, 1792, in the thirty-sixth

of the physician, from an accumulation of water on the brain. His instrumental compositions (his beautiful symphonies. his ethereal quartetts, concertos for the piano, sonatas, &c.) will remain a pattern for all nations and all ages. He has equal fame in sacred music, particularly for his grand hymns and masses. His requiem is generally said to have had the following origin. A count of Walseeg, who was a stranger to him, came one day, and requested him to compose a mass for the death of his wife, for which Mozart was to fix his own price. Mozart required 100, others say 200, ducats, but would not bind himself as to time, wishing to give the work perfection. The visiter paid the price demanded in advance, and promised, when the work was finished, to give an additional sum, and to call again in the During this course of some months. time, Mozart received the commission to compose La Clemenza di Tito for the coronation at Prague, and was on the point of entering the carriage to proceed to Prague, when the visiter reappeared, and reminded him of his promise. Mozart apologized, and promised to attend to the work immediately on his return from Prague. He commenced the mass with an energy and interest which he had never yet felt while composing any of his other pieces, so that his wife felt great anxiety lest the unusual exertion should affect his already declining health; indeed, Mozart himself, with tears in his eyes, acknowledged that he was writing a requiem for himself. His wife prevented him from continuing the work, and would not return him the manuscript till his health was apparently perfectly reestablished, and he had repeatedly requested it. Mozart nearly completed the work, when he was again oppressed with melancholy; his health daily declined, and his death took Immediately on his death, the place. visiter appeared, demanded the piece, and, received it unfinished, as it was left. This composition fell into the hands of his scholar Süszmayr, who presumed to make additions and alterations, particularly adding those instruments to the sanctus which were omitted, and arranged the whole as Lit is now printed. Mozart's works equally delight the mere amateur and the accomplished musician, notwithstanding the complete novelty of their character. He explored all the sources of the art, and attained the highest degree of perfection, by the richness, purity and depth of his ideas. Mozart left a widow and two sons, imal body, perfectly distinct from gelatin

year of his age, according to the opinion 'The former married a second time, and died in 1826. His eldest son received a post in one of the government offices at Milan: the younger son, born, 1792, became a performer, and composer on the piano-forte.

Mucic Acto. This acid has generally been known by the name of succholuctic acid, because it was first obtained from sugar of milk; but all the gums appear equally to afford it. To obtain it from a gum, we have only to heat one part of this substance with two of nitric acid, till a small quantity of nitrous gas and of carbonic acid is disengaged, when the dissolved mass will deposit, on cooling, the mucic acid. The pulverulent acid is soluble in about 60 parts of hot water. It decomposes the muriate of barytes, and both the nitrate and muriate of lime. scarcely acts upon the metals, but forms salts with their oxides. According to Berzelius, mucic acid consists of oxygen, 62.69, carbon, 33.69, and hydrogen, 3.62.

Mucius Schwola (properly Caius Mucius Cordus); the subject of a celebrated Roman tale. If we may believe the story, when Porsenna, king of Etruria, had besieged Rome to reinstate Tarquin in his rights, Mucius determined to deliver his country from so dangerous an enemy. He disguised himself in the habit of a Tuscan, and, as he could speak their language fluently, he gained an easy introduction into the camp, and, soon, into the royal tent. Porsenna sat alone with his secretary when Mucius entered. Roman immediately rushed upon the secretary, and stabbed him to the heart, mistaking him for his royal master. Mucius, unable to escape, was seized. He gave no answers to the inquiries of the courtiers, and only told them that he was a Roman, and, to give them a proof of his fortitude, he laid his right hand on an altar of burning coals, sternly looking at the king, and, without uttering a groan, boldly told him that 300 young Romans like himself had conspired against his life, and determined either to destroy him, or to perish in the attempt. This extraordinary confession astonished Porsenna, who made peace with the Romans, and retired from their city. Mucius obtained the surname of Scavola (the Lefthanded), because he lost the use of his right hand by burning it in the presence of the Etrurian king.

Muck. Muck. (See Amuck.)
Mucus (from poga, the mucus of the nose); one of the primary fluids of the an-

and vegetable mucus; transparent, glutinous, thready, and of a salt savor. It contains water, muriate of potassa, and soda, lactate of lime, of soda, and phosphate of lime. The mucus forms a layer of greater or less thickness, at the surface of the mucous membranes, protects these membranes against the action of the air, of the aliment, the different glandular fluids, &c. Independently of this general use, it has others that vary according to the parts of mucous membranes: thus the mucus of the nose is favorable to smell, that of the mouth to the taste; that of the stonach and the intestines assists in the diges-· tion. A great part of the mucus is absorbed again by the membranes which secrete it: another part is carried outwards, either alone (as in blowing the nose or spitting), or mixed with the pulmonary transpiration, or with excremental matter, &c.

Muezzin, or Mueddin, in Mohamme-, dan countries; the crier who announces the hours of prayer from the minaret. Five prayers are repeated daily,-one before sunrise, one at dawn, one at noon, one at four in the afternoon, and one at sunset. As bells are not in use among the Mohammedans, the muezzin proclaims the time, and reminds the faithful of their duty. He tells them at day-break that prayer is better than sleep, and, at dinnertime, that prayer is better than food.

MUFTI. Grand mutti (called, also, by the Turks, sheik-Ulislam, which means head of the elected) is, in Turkey, the chief minister of religion and law, and follows in rank immediately after the grand visier. In fact, the receives from the sulfan honors even beyond those of the visiers. His election depends entirely upon the sultan, and, as long as he remains in his office, he cannot be con-dended to death. The sultan can only depose him, and cannot confiscate his property. The mufti, as interpreter of the Koran, is consulted on judicial proceedings, particularly in criminal cases, and, in general, on all affairs of importance. He usually gives his opinion in few words, without adding the reasons. In difficult cases, he adds, "God knows what is best." In his signature, he calls himself the poor servant of God. His written sentence is called felvah; and hence the musti himself is called sahibi-fetive, which means master of legal decisions, and his secretary is called fetvah-emini. The latter remains by him, decides cases with which the try and mineralogy, but is best known as multi does not wish to trouble himself, and presents the decision for his signature. The fixed revenue of the musti amounts

to 2000 aspers daily. (See Asper.) As he has, moreover, the disposal of several places in the imperial mosques, and is concerned in all the promotions of the members of the legal profession, he has many additional sources of income. In great cities, there is an under mufti, who receives his place from the grand musti, but not without making him valuable presents.

Muggenporr; a village in the Bavarian circle of the Upper Maine, in a valley on the Wiesent, remarkable for the numerous caves in the environs. Some of them contain stalactites, and others great quantities of bones of unknown animals.

Muggletonians; a religious sect which sprung up in England, in the middle of the seventeenth century, so called from their founder, Muggleton, a tailor. He and an associate pretended to the character of prophets, and to be the two witnesses mentioned in Revelation.

MUHAMMED. (See Mohammed.)

MUHLBERG; a city of the Prussian territories, in the province of Saxony, celebrated in history for the battle between the Protestants, under John Frederic, elector of Saxony, and the Catholies, under the emperor Charles V. (q. v.), April 24, 1547. (See Germany; Smalcaldic League.)

MUULENBERG, Henry Erost, D. D., the third son of Henry Melchior Mühlenberg, D. D., the founder of the German Lutheran church in the U. States, was born in New Providence, Montgomery county, · Pennsylvania, Nov. 17, 1753. He was educated in the common schools of Philadelphia, and, April 27, 1763, being ten years of age, sent to Halle, with his two elder brothers, to finish his education in literature and the sciences, and to study theology. In 1770, he left the university, returned to America, after travelling through a considerable part of Germany and England, was ordained the same year, by the Lutheran synod, and, in 1774, appointed third minister, and assistant to his father, in the Philadelphia congregation. In 1780, he accepted a call from Lancaster, in which situation, as pastor, he devoted himself assiduously and most faithfully to his duties, until the moment of lus death, which occurred, by apoplexy, May 23, 1815. He was a learned theologian, versed in the ancient languages and in Oriental literature, and possessed considerable acquirements in medicine, chemisone of the most distinguished American In 1777, during the occupation botanists. of Philadelphia by the British, being a

strenuous whig, he retired to the country. where, relieved of professional duties, he commenced the study of botany, to which e enthusiastically devoted himself. He carried on from this time, a correspondonce with many of the distinguished naturalists of Europe, and with the principal cultivators of botany in America, and contributed much, by his letters and communications, to learned societies of which he was a member, to promote the progress of natural science. In 1786, he was elected a member of the American philosophical society; in 1798, member of the Naturforschender Freunde, in Berlin; in 1802, member of the philosophical and physical societies of Göttingen, and various other associations in Sweden, Germany, and elsewhere. His letters are very frequently referred to in Wildenow's Species Plantarum. His chief publications are Catalogus Plantarum, and Descriptio liberior Gramimm. His Flora Lancastricusis remains in manuscript. He has also left much in manuscript in botany, theology and ethics.

MUKANNA, Atan Hakem (called also Mokanna, or Borkai), born in Khorasan, 775, pretended that the spirit of God, which had been transmitted from Adam, through Noah and all prophets, rested on him. Being hard pushed by the cauph Mohammed I, he burnt himself with all his treasures, in Sam. His followers were called Moveidites, and poid him divine honors.

MULATTO (Spanish, mixed) is commonly used to signify the offspring of a black and a white. The mulatto is of a yellow color, with frizzled or woolly hair, and resembles the European more than an African. The descendants of Europeans and Indians are called mestizos. (q. v.) In Spain, the term milatto is often applied to those persons in whom the Moorish blood has been mingled with the Spanish.

MULBERRY (morus); a genus of plants allied to the nettle, and belonging to the natural tamily urtices. The species are trees, bearing alternate, simple, and often lobed leaves, and inconspicuous flowers, which are disposed in aments. The fruit is edible. The white mulberry (M. alba) is the most interesting of the genus, on account of the leaves being used for food by silk-worms. It grows to the height of forty or fifty feet, (with a trunk two or more feet in diameter. The leaves are often divided into several lobes. The berries are white, sometimes, however, varying to red, and possess a sweet and insipid taste. It is a native of China, and the Chinese claim the art of rearing silk-worms, and manufacturing

stuffs, from a very remote period. From China, this art was introduced into India and Persia, and was practised there for many ages before it reached Europe. The Greeks became acquainted with silk subsequent to the time of Alexander; and it was not till the end of the republic that the Romans, for the first time, saw this precious article. For many ages, silk bore an enormous price at Rome; but. about the middle of the sixth century, during the reign of Justinian, two monks arrived at Constantinople from India, bringing with them the white mulberry, and the eggs of the silk-worm. Constantinople, the white mulberry was introduced into Greece, and, about the year 1130, into Sicily and Italy. first mulberry that was planted in France was living in 1802, and there still remain . some stocks that are apparently of nearly the same age. It is now cultivated and naturalized throughout the south of Eu-. rope, and in some of the central parts of that continent. In southern climates, the leaves appear to contain a less proportion of water, and more of that substance which causes the worms to produce silk in greater abundance, and of a finer quality. In Greece, Asia Minor and Persia, it is usual to give to the worms the branches, with the leaves attached to them; but, in Spain, Italy and France, the leaves are carefully stript from the trees, taking care to despoil each tree entirely, otherwise the sap will be unequally attracted. The varieties of this tree are very numerous. The most approved mode of cultivation is from seed, and is practised exclusively in the south of France. A moderately fertile soil is the most suitable. In the U. States, the white mulberry flourishes as far north as the forty-third, and as far south, at least, as the thirty-second parallel of latitude.—The black mulberry (M. nigra) is a tree about as large as the preceding, said to be a native of Persia, but which has been cultivated in Europe from a very remote period. The fruit is blackish purple, sugary, with a slight acidity, and very agreeable. It is, however, in perfection only for a few moments, and that at the time when it can be detached from the tree by a slight shaking of the branches. The Romans, indeed, preferred it to every foreign fruit. tree often yields a prodigious quantity. The leaves are sometimes substituted for those of the white mulberry for silkworms.—The red mulberry (M. rubra) is a native of the U. States, and one of our most valuable trees, from the properties

of the wood. The leaves are large, cor- two or three layers of the same are then date, entire, or divided into two or three placed upon them, taking care to preserve lobes, rough and hairy while young. The fruit is deep red, and of an agreeable sugary flavor, mingled with a slight acidity. It is rather rare in the Atlantic states, but is abundant in the west, on the Ohio and its tributaries, and on the lower parts of the Missouri. It grows to the height of sixty feet and upwards, with a trunk' six feet in circumference. The wood is fine-grained, compact, strong, and solid, and, by many persons, is esteemed fully equal to the locust. It is employed in naval architecture at Philadelphia and Baltimore, for the upper and lower parts of the frame, for knees and floor-timbers, and for treenails, it is hardly inferior to the locust, but is scarce in our ship-yards, and difficult to be procured in any quantity. For posts it is considered nearly as lasting as the locust, but it grows more slowly, and requires a richer soil. These qualitics of the wood have induced Michaux to recommend its introduction into the European forests. Some experiments have been instituted in France, to ascertain whether the leaves were proper for silkworms; but the result was unfavorable. A much less quantity was obtained than from worms fed on the white mulberry. and there was a greater mortality: the worms, however, did not seem to be aware of the change, even when the leaves were mixed.—The paper mulberry has now been separated from the genus morus, and placed under an allied one,-browssonetia. It differs from the true mulberries in having the female flowers collected into a globular mass, which acquires a brightred color. The tree is of a moderate size, bearing leaves which are either simple, or divided into lobes, more or less deep, rough above and hairy beneath. It was originally from India and Japan, but is. now very commonly cultivated in Europe, and succeeds even in the more northern parts. It is equally common about houses, in many parts of the U. States. For a long time, the female plant was unknown in Europe, and, at the present time, it is exceedingly rare in this country. islanders of the Pacific make a kind of clothing from the bark of this tree, in the following manner: Twigs of about an inch in diameter are cut, and deprived of their bark, which is divided into strips, and left to maccrate for some time in running water: after the epidermis has been scraped off, and while yet moist, the strips are laid out upon a plank, in such a manner that they touch at the edges, and

an equal thickness throughout. end of twenty-four hours, the whole mass is adherent, when it is removed to a large, flat, and perfectly smooth table, and is beaten with little wooden clubs, till it has attained the requisite thinness. This kind of cloth is easily torn, and requires to be washed and beaten many times before it acquires its full suppleness and whiteness. The natives dye it red and yellow, and also make a similar cloth from the breadfruit-tree, an allied plant; but that from the mulberry is preferred. The paper which is used in Japan, and many other countries in the East Indies, is made from this For this purpose, the annual shoots are cut, after the fall of the leaves, tied in bundles, and boiled in water mixed with ashes; after which the bark is stripped off by longitudinal incisions, and de-prived of the brown epidermis. The bark of the more tender shoots is separated from the rest, as it furnishes a very white paper for writing, while that produced by the remainder is coarse and gray, and serves for wrapping, or similar purposes. The writing-paper is not suitable for quills, and these nations employ hair pencils, or. the feathers of birds. For painting, they make use of wooden blocks; and this, as well as the writing, can only be executed on one side. Silk-worms will cat the leaves of this tree indiscriminately, even when mixed with those of the white mulberry. The fustic tree is now referred to the genus broussonetia. (See Fustic.)

MULCIBER. (See Vulcan.) MULDAU. (See Moldau.)

MULE is the produce of a jackass with a mare, and has a large, clumsy head, long, erect ears, a short mane, and a thin tail. The produce of a she-ass and a stallion, called bardeau by Buffon, is a much inferior animal. The head is long and thin, the cars are like those of a horse, the mane is short, and the tail well filled with hair. The former, or mule, commonly so called, is much valued for the saddle, and for drawing carriages, in Spain, Portugal, Italy, the East, and in Spanish America. In these countries, where great attention is paid to the breed, it is very well-limbed, as tall as the horse, but not so handsome, . especially about the head and tail. animals are mostly sterile; some, indeed, have thought that they are altogether incapable of producing their kind; but some few instances have occurred in which female mules have had foals, and in which the male has impregnated females, both

of the ass and horse species; but such instances are very rare. Mules have been much employed; both in ancient and modem times. pages drawn by mules; and, at this day, in Spain, the coaches of the nobility, and even of the princes, are usually drawn by. them. Savoy produces very large ones, but the finest are bred in Spain. Mules are chiefly used in countries where there are rocky and stony ways, as about the Alps and Pyrenees, &c. They are sometimes fifteen or sixteen hands high. They are very proper for large burdens, and are remarkably sure-footed. They are much stronger for draught than our horses, are often as thick-set as dray-horses, and will travel several months together, with six or eight hundred weight on their backs. They are much hardier than the horse, cheaper kept, subject to fewer diseases, and will live and work twice as long. They take so much after the mare from cured of any kind, light or strong, as the owner pleases. The stubbornness complained of in them is owing only to ill treatment.

Mule, in manufactures; a machine, invented by Crompton, in 1779, for producing finer yorn than was spun by the machines previously in use, and which has now nearly superseded the jenny. (See Cotton Manufacture.) For producing threads of the finest kind, a process is necessary which is called stretching, and which is analogous to that which is performed with carded cotton upon a common spinning-wheel. In this operation, portions of yarn several yards long are forcibly stretched in the direction of their length, with a view to elongate and reduce those places in the yarn which have a greater diameter and are less twisted than the other parts, so that the size and twist of the thread may become uniform To effect the process of throughout. stretching, the spindles are mounted upon a carriage, which is moved back and forwards across the floor, receding when the threads are to be stretched, and returning when they are to be wound up. The yarn produced by mule-spinning is more perfect than any other, and is employed, in the fabrication of the finest articles. sewing-thread spun by mules is a combination of two, four, or six constituent threads, or plies. Threads have been produced of such fineness, that a pound of cotton has been calculated to reach 167 miles.

MULGRAVE ISLANDS; an archipelago in

the Pacific ocean, lying between lat. 3° S. and 12° N., and lon. 160° and 177° E. is composed of the groups of Browne. The Roman ladies had equi- Raiick, Radack, Scarborough and Kingsmill. The name is also applied, in a more limited sense, to a small group of islands in the southern part of the group of Radack, lat. 6° N., lon. 173° E. This group was examined by lieutenant Percival, in the U. States schooner Dolphin, in 1825, more fully than had been previously done. (See Paulding's Cruite in the Pacific, and Visit to the Mulgrave Islands, New York, 1831.) The islands are low, of a cord formation, and producing the cocoa and bread-fruit trees. The inhabitants are lively, intelligent, timid and gentle. The group forms a circular chain of narrow strips of land, about half a mile wide, enclosing an inland sea 140 miles in circumference.

Mulgrave, Constantine John Phipps, lord, born in 1744, early entered the naval service. In 1773, the British government which they are bred, that they may be pro- having determined to send out an expedition to reach the north pole, captain Phipps received the command of the two bombvessels, Racehorse and Carcass, destined for the voyage. The latter was commanded by lieutenant Lutwidge, under whom Nelson was cockswain. The expedition left the Nore June 4th, and on the 20th arrived off Spitzbergen. It returned in September of the same year, after having reached 80° 48' of north latitude, beyond which an unbroken and impenetrable field seemed to stretch to the pole. Lord Mulgrave inherited his title (Irish) on the death of his father, in 1775, and was afterwards commissioner of the admiralty. He died in 1792.—See his Journal of a Voyage towards the North Pole (London, 1774). His brother Henry was born in 1755, entered the army in 1775, served in N. America, as aidto general Knyphausen, and returned with the rank of lieutenant-colonel. In 1781, he was elected member of parliament, and entered fully into Pitt's system of politics. In 1792, by the death of his elder brother. Constantine John, he succeeded to the title and family estate. On the breaking out of the French war, he was employed in some confidential mission by Mr. Pitt, Mr. Pitt, in 1804, made him chancellor of the duchy of Lancaster, and in 1807 he was nominated first lord of the admiralty. In-1812, he was removed from the admiralty to be master-general of the ordnance, and was raised to the rank of viscount and earl, by the title of viscount Normanby and earl of Mulgrave. In 1818, he resigned the place of master-general of the ord-nance to the duke of Wellington, but was by a special agreement, to hold a seat in the cabinet. He died in 1831. His son, Lord Normanby (q. v.) succeeded to his titles.

MULL; an island of the Hebrides. Its extreme length is 35 miles, and its greatest breadth is 30; superficial area, 420 square The island is, for the most part, rugged and mountainous; and Benmore. the highest mountain, is supposed to be elevated three thousand feet above the level of the sea. Agriculture, of recent years, has been greatly improved. The land is more peculiarly adapted for grazing, and there is a very hardy race of black cattle, of small size. A considerable quantity of kelp is made. The principal village is Tobermory. Population, 9303. Lon. 6° W.; lut. 56° 30' N. Between it and the main land of Argyll and Inverness shires, is the sound of Mull.

MULLEIN. The common European mullein (verbaseum thapsus) is now so the sources of Swiss history, and the an-extensively diffused throughout the U. cient classics. During the winter of 1778, States, appearing often at a distance from habitations, that most people can with difficulty be persuaded that it is not really a native. It grows in old fields, road-sides, &c., in barren soil, and is a conspicuous · plant. The root is biennial; the stem simple, cylindrical, two or three feet high, and, together with the leaves, is covered with a very thick down. The flowers are yellow, almost sessile, and are disposed in a long cylindrical spike. It is of very little utility, and is avoided by all ani-- mals except goats. About eighty species of millein are known, most of them natives of the regions about the Mediter-' rancan.

MULLER, John. (See Regiomontanus.) MULLER, John von, the celebrated historian, born at Schaffhausen, in 1752, was the son of a preacher and schoolmaster there, and was indebted to his maternal grandfather for the future bent of his mind. Before he had learned to read, he had become familiar with the principal events of Swiss history, through the conversation of the kind and enthusiastic old man. His diminutive size, shortness of sight, and delicate constitution, prevented him from engaging in the sports of his age, while his studious disposition and warm heart excited the hopes and won the affections of his elders. At the age of nine years, he wrote a history of his native city; and to the ancient classics, which . he began to read secretly in his 13th year, he was indebted for that love of liberty, and moral grandeur, that clearness and vor. 1x. 8

ergy of expression, which appear even in his school exercises. Being intended for the church, he went to Göttingen in 1769, where his teachers were Michaelis, Walch, Less and Miller, and his favorite studies, exegesis and ecclesiastical history. The influence of Schlözer soon induced him to renew his historical studies, the first fruits of which appeared in his Bellum Cimbricum (1772). On his return to Schaffhausen, Müller preached with success, and was appointed professor of Greek in the gymnasium. Here he formed an inti macy with Charles Victor von Bonstetten, which gave rise to the admirable Letters of a young Scholar to his Friend (in German, published in 1802). Bonstetten pro-cured him the place of family tutor, at Geneva; and the celebrated Bonnet afterwards received him into his house. The years 1777 and 1778 were spent in excur-. sions through Switzerland, in studying the sources of Swiss history, and the anhe delivered lectures on universal history. The substance of these lectures is given in the Twenty-four Books of Universal History, which form the three first vol-umes of his works. The first volume of his History of the Swiss was published at Berne (the title-page said Boston) 1780, and he soon after went to Berlin, where he published his Essais historiques. Although Frederic II (the Great) received him with distinction, no provision was made for him, and he was disappointed in his expectations of obtaining a place in the academy; he therefore left Berlin, and became professor of history at Cassel (1781). Here he produced his treatises De l'Influence des Anciens sur les Modernes, and De l'Etablissement de la Domination temporelle du souverain Pontife au 8me. Siècle. In 1783, Müller returned to Geneva, and renewed his examination of the documents of the history of Switzerland. In 1786, he was invited to Mentz by the . elector, with the post of librarian and court counsellor, and here published a new edition of the first volume, with a second volume of his history. Some political treatises, which he published at Mentz, contributed to extend his reputation, and to raise him to higher dignitics at the electoral court. In 1791, the emperor created him baron of the empire, with a patent of nobility. When Mentz fell into the hands of the French (1792), Mul-. ler, who had no sympathies with the revolution, went to Vienna, and was made a member of the privy chancery of court method of thought, and elegance and en- and state. His pamphlets on the occasion

of the separate peace of Prussia, Die Uebereilungen und der Reichsfriede (1795), and those entitled Die Gefahren der Zeit. and Das sicherste Mittel zum Frieden (1797), are master-pieces of eloquence. In 1800, he was appointed first keeper of the imperial library, and now found time to devote to his historical studies, which had been interrupted by his political duties and the troubled state of the country. 1804, he left Vienna, and went to Berlin, studies. Several treatises which he published on the History of Frederic II, on the Decline of Liberty among the Aucients, &c. are contained in the eighth volume of his works. He was preparing materials for writing the history of Frederic the Great, when the battle of Jena put a stop to his labors. Napoleon had a conversation with him at Berlin, and The treated him with much distinction. genius and kindness of the eniperor won Gloire de Fréderie, delivered before the academy, he spoke of him in favorable terms. This made Müller an object of suspicion in Prussia: he was, therefore, more ready to accept a place at the university of Tübingen; but while on his way thither, received the information of his appointment as secretary of state to the kingdom of Westphalia, which post he entered upon with reluctance. He was finally permitted to resign it in 1808, and died in 1809. The first division of the fifth volume of his History of Switzerland was published in 1808. His complete works were published at Tübingen, in 1810, &c., in 27 vols. His Letters (vols. 4-7 and 13-18) contain important materials for forming a just estimate of his character. Heeren's Miller der Historiker (Leipsic, 1809) presents an impartial view of his services and his faults. grent work-Geschichte Schweizerischer Eidgenossenschaft-comes down only to It is distinguished for accuracy of research, profound, and broad views, and, although minute, is not dry.

MÜLLER, Peter Erasmus, Pofessor of theology at Copenhagen, born in that city in 1778, has thrown much light on northern antiquities, by his laborious and critical researches. Among his valuable productions are his Sagabibliothek (3 vols.), and Critical Inquiries into the Value of the historical Sources of Saxo Grammaticus and Snorre Sturleson. The former gives the contents of all the Icelandish sagas; the latter is a model of historical criticism. Besides these works, he has

written treatises on the Golden Horn : on the Origin and Decline of Historiography in Iceland; on the Importance of the Icelandish Language; and Ueber die Echt-heit der Asalekre. Since 1815, he has heit der Asalehre. been the editor of the Copenhagen Literary Journal (Kiobenhavnske laerde Eftervetninger), which, since 1821, has appeared under the title of the Danish Literary Gazette

(Dansk Literatur-Tidende).

MÜLLER, John Gotthard von, one of the where he devoted himself entirely to his most eminent engravers of Germany, born in Würtemberg, 1747, early displayed so much talent, that the duke sent him to Paris in 1770. Here he studied engraying under the celebrated Wille, made rapid progress, and was chosen member of the academy of arts. He was soon after invited to Studgard, by the duke of Wurtemberg, as professor of the academy in that place, and there published the masterpieces by which he has become celebrated. His principal historical pieces are his esteem, and, in his discourse De la the Battle of Bunker Hill, from Trumbull, and the Madonna della Sedia of Raphael. He is particularly remarkable for the purity and sofiness of his burin. He died in 1830. His son John Frederic William, born at Stuttgard in 1782, was also a distinguished engraver. He received his education at the gymnasium in Stuttgard, and was instructed, by his father, in geometry and perspective. His attempts with the burin were successful beyond expectation, and, in compliance with the precepts and example of his father, he employed himself assiduously in the study of drawing. At the age of 20 years, he went to Paris, and applied himself with such excessive ardor as to injure his health; he likewise practised oil-painting, and executed three portraits from nature. While at Paris, he engraved the Venus of Arles for the Musée Français, and a statue La Joinesse for Robillard: the latter exbibited a wonderful skill in imitating the appearance and expression of marble, on copper. In 1805, he painted and ongraved the portrait of the crown prince, since king of Würtemberg; began the famous John, after Domenichino, and drew the St. Cecilia of the same master. In 1808, it was proposed to him, by Rittner, a dealer in works of art, to engrave Raphael's Madonna del Sisto, in the Dresden gallery; and, animated by the greatness of the undertaking, he determined to devote all his powers to its execution, and, previously, to study his art in Italy. In 1809, he returned from Italy, and entered, with his usual industry, upon his great work. In the mean time, he executed

several works, such as the portraits of Jacobi, Schiller and Hebel, and the Adam and Eve, after Raphael. In 1814, he was appointed professor in the Dresden academy of arts; but his health began to fail, and he exhausted the last remains of his mental and bodily vigor in the completion of his favorite work. He died in 1816, without laving seen an impression of this.

splendid production.

MULLER, Frederic, usually called Maler Müller, or Müller the Painter, born at Creuznach, in 1746, published, as early as his 18th year, and subsequently, several collections of ctchings (animals, compositions in the Flemish style, pastoral scenes, &c.), which were remarkable for their originality and freedom. In 1776, he went to Rome, and studied the works of Michael Angelo, but without much suc-Like many of those who imitate that master, in attempting to copy his grandeur, he fell into an exaggerated style. As a noet, he deserves more credit. At a time when German poetry had degenerated into a mere versified prose, Müller appeared among the great writers who gave a new impulse to German literature. (See German Literature.) His complete works were published at Heidelberg (1811, 3 vols.). The principal are Niobe, Faust, and Genevieve. They are characterized by richness of fancy, warmth of passion, and elevated delineation of character, though sometimes wild and disconnected. He died at Rome, in 1825, in the 80th year of his age.

MULLER, Charles Ottfried, born at Brieg, 1797, was, at first, professor at the Magdalen gymnasium at Breslau ; in 4819, was made extraordinary, and, in 1823, ordinary professor of philosophy at Göttingen. He has acquired great reputation by his ingenious and learned work. Geschichte Hellenischer Stämme und Städle (4 vols., Göttingen, 1820—1824), a part of which has been translated into English, under the title of The Dorians (2 vols., London, 1830). The text of the translation was revised by Müller, who made numerous alterations, corrections, and valuable additions, which render it, in fact, a new and improved edition of the work. His other works are Liber Ligineticorum; Orchomenos und die Minyer; Prolegomena zu einer wissenschaftlichen

Mythologie (1825), &c.

MULLER, William, a German poet, born at Dessau, 1795, studied at Berlin (1812), where his favorite branches were the historical and philological. The war of 1813 called him from his books, and he was present, as a volunteer, in the Prus-

sian army, at the battles of Lützen, Bautzon, Hamu and Culm. In 1814, he returned to his studies at Berlin, and cultivated the old German poetry and litera-His early display of talents had induced his father (a mechanic, in moderate circumstances) to allow him to follow his own inclinations; and, at Berlin, he had enjoyed the advantage of the instructions of Bockh, Buttmann, Rühs and Uhden. His journey to Italy (1819) produced his ingenious work Rom, Römer, und Römerinnen (Berlin, 1820); and, on his return to Germany, he became teacher of Latin and Greek, in the newly cstablished school at Dessau, where he was. also appointed ducal librarian. In 1824 appeared his Gedichte aus den hinterlassenen Papieren eines reisenden Waldhornisten, which displays great poetical morit. His Lieder der Grüchen (1825) celebrates with poetic fire, the awakening of an oppressed nation, its struggle and its victory. His Lyrische Spaziergunge displays the same truth of nature, freshness and fire, and the same harmony of language, which characterize his other poems, He also contributed many critical papers to several German periodicals and encyclopædias, and his Homerische Vorschule (1824) is a work of much learning. His Bibliothek deutscher Dichter des 17 Jahrhunderts (10 vols., Leipsic, 1822-27) is a valuable collection of the best lyric poems of that period. He died in 1827. His works were collected in 5 volumes (Leipsic, 1830).

MULLET (mullus, L.).; a genus of acanthopterygien fishes, distinguished by the oblique form of their head; by two long appendages under the chin, and large scales on the head and body, which are very easily detached. Their body is oblong, and generally of a red or yellow color; their head of a moderate size; their eyes situated close to each other. The most celebrated species is the M. barbatus, which is found in the Mediterranean. These fish were held in great estimation among the epicures of ancient Rome, and were sometimes sold for their weight in filver. Pliny gives an instance where near \$300 were given for a single fish, of about three pounds weight. venul also records the height to which luxury had attained in his days, in speaking of the prices given for the mullet—
"Mullum sex millibus emit, Equantem sane paribus sestertia libris." But the extravagance of these conquerors of the world was still more strongly exemplified in the mode in which these fishes were served up: there was a vessel of water, in

which the fishes were alive, in the eating 'the Literaturblatt of the Morgenblatt, and room, whence it was conveyed immeditin 1823 conducted the Hekate, which soon, ately to the fire, and dressed in the same apartment. It was even customary to place them in glass vases, that the guests might be gratified by observing the changes of color which they underwent in expiring. Apiclus, that prince of epicures, "nepotum omnium allissimus gurges," hit upon a mode of sufficienting them in a certain pickle, which heightened their flavor. In modern times, they are but little esteemed, though their flesh is white, fat, and well tasted. The roes are known in Italy, under the name of botargo: they are prepared in a peculiar manner, and are highly prized.

MULLNER, Amadeus Gottfried Adolf. a. celebrated Germandramatist, bornat Langendorf, near Weissenfels, in 1774, was educated at the Pforta school and the university of Leipsic, and settled in the practice of the law at Weissenfels. His carly studies had been extensive, particularly in ' mathematics and German literature; but for a time, he devoted himself entirely to his profession, wrote several esteemed law treatises, and, in 1805, was made doctor of law at Wittenberg. Several years later, a private theatro being established, princihally at his suggestion, at Weissenfels, in which he appeared, with great success, in many parts, he was induced to write himself, and produced his Neumand. wanzigster Februar (1812). The favor with which it was received encouraged him to contin-. ue his labors; and his Schuld, which was written the next year, made him known throughout Europe, and was translated into English, French, and other languages. These pieces were the first of the dramas founded on fate, and owe their origin to Werner's Vierundzwanzigster Februar: at the same time they follow, though at a distance, the ancient tragedy. His King Yngurd (1817), and his Albaneserin (1820), were his next productions in this department. His comedies, some of which were published in 1815 (among them we , may mention the Vertraulen, Die grossen Kinder, Die Onkelei), were less successful. Collections of them appeared in the Spiele für die Bühne (1815—1821), and Almanach für Privatbühnen (3 vols., 1817— 1819). From 1820, he ceased to write for the theatre, probably on account of the cold reception of his two, last trugedies, and devoted himself to literary and dramaturgical criticism. He had already coutributed numerous articles to several periodical works, but he then became himself an editor. From 1820 to 1825, he edited

in 1823 conducted the Hekate, which soon, however, fell through. In 1826, he established the Mitternachtsblatt, which he edited till 1829. An edition of his works, edited by himself, was published at Brunswick (7 vols., 1828), to which he added an eighth, under the title of Meine Lämmer und ihre Hirten (Wolfenbüttel), occasioned by and setting forth his quarrels with his former publishers. He died in 1829. selection of his writings has since been published by professor Schütz (3 vols., Meissen, 1830), who has also written his As a critic, although often personal in his sarcasms, he was distinguished for his wit, judgment, and acuteness. His severe personalities engaged him in many disputes, both with authors and publishers. As a poet, Müllner is deficient in invention and depth of feeling; but his lauguage is rich, sparkling, and highly poetical, but too epigranmatic; and his imagery is brilliant.

MULTIPLE, in arithmetic, is a number which contains another number a certain number of times. Thus eighteen is a multiple of six, or of three, or of nine, &c. Common multiple of two or more numbers is that which contains those numbers a certain number of times. Thus thirty-six is a common multiple of four and nine, being equal to nine times the first, and four times the second. To find the least common multiple of several numbers: reduce them all to their prime factors, then the product of the greatest powers of those prime factors is the least common multiple required. Let it be proposed to find the least common multiple of twelve, twenty-five and thirty-five, or the least number that will divide by each of them without a remainder. Here

12-3×21; 25=51, and 35=5×7: therefore $3 \times 2^{1} \times 5^{2} \times 7 = 210$, the least

common multiple requiréd.

MULTIPLYING GLASS, in optics; one wherein objects appear increased in num-It is otherwise called a polyhedron, .. being ground into several planes that make angles with each other, through which the rays of light, issuing from the same point, undergo different refractions, so as to enter the eye from every surface in a different direction.

MULTIVALVES, in natural history; the name of a general class of shell-fish, con-

sisting of three or more shells.

MULTNOMAH; a river of Oregon Territory, which rises in about lat. 41°, among the Rocky mountains, runs about 500 miles through a country of extreme fertil-

ity, and unites with the Columbia, opposite Wappatoo island. The first part of the country through which it flows is level and open, but the remainder, and much the larger part, is covered with a forest, which is probably not exceeded by any on the globe for the size of its, trees and the excellence of their timber. The Multiomah is 500 yards wide at its, mouth, and has five or six fathours of water. There is a sand-bar at its mouth, but it is otherwise free from all obstructions to naviga-

tion for seventy miles.

Mun; a malt liquor, which derives its name from the inventor, Mumme, a Ger-It was formerly exported from man. Germany in large quantities, but is now

less used.

Mummies (by some derived from the Arabic momia, or the Coptic mum, bitumen or wax); the dead bodies of the Egyptians, which were preserved by embalming. Owing either to the religious opinions of the Egyptians, or to the nature of the country, which rendered interment inconvenient, or the want of fuel, which rendered burning difficult, they embalmed all their dead, and deposited them in subterraneous chambers, or in grottoes excavated in the mountains. An immense number of them has been found in the plain of Saccara, near Memphis; hence called the plain of the mummies, consisting not only of human bodies, but of various animals, or heads of animals, bulls, apes, ibises, crocodiles, fish, &c. Numerous caves or grottoes, with contents of the same kind, are found in the two mountainous ridges which run nearly parallel with the Nile from Cairo to Sycue. Some of the most remarkable of these tombs are those in the vicinity of ancient Thebes, in the Lybian mountains, many of which were examined by Belzoni, and those near Eleithias (described by Hamilton), farther up the river, which, though less splendid than the Theban sepulchres, contain more illustrations of the private life of the Egyp-The sepulchral chambers are almost entirely covered with fresco paintings and bass-reliefs, and frequently contain statues, vases, &c. Some of them (the royal sepulchres) consist of suites of spacious halfs and long galleries of mag-nificent workmanship. Those of private individuals vary according to the wealth of the deceased, but are often very richly ornamented. Many of these tombs have been ransacked by Arabs for the purpose of plunder, and great numbers of the muminies destroyed for the rosin or asphaltum they contain, which is sold to teeth and hair are generally preserved; but . 8*

advantage in Cairo. The tombs and mumnies are, many of them, two or three thousand years old, and are, in part, indebted for their preservation to the dry- . ness of the soil and the mildness of the climate. The processes for the preservation of the body were very various. Those of the poorer classes were merely dried by salt or untron, and wrapt up in coarse cloths, and deposited in the catacombs. The bodies of the rich and the great underwent the most complicated operations, and were laboriously adorned with all kinds of ornaments. Embalmers of different ranks and duties extracted the brain through the nostril, and the entrails through an incision in the side; the body was then shaved, washed, and salted, and, after a certain period, the process of embalming (q. v), properly speaking, began. The whole body was then steeped in balsam, and wrapped up in linen bundages; each finger and toe was separately enveloped, or sometimes sheathed in a gold case, and the nalls were often gilded. The bandages were then folded round each of the limbs, and finally round the whole body, to the number of 15-20 thicknesses. The head was the object of particular attention; it was sometimes enveloped in several folds of time muslin; the first was glued to the skin, and the others to the first; the whole was then coated with a fine plaster. A collar of cylindrical glass beads of different colors, is attached to the mask which covers the head, and with it is connected a tunic of the same material. The beads, both in the collar and tunic, are so arranged as to form images of divinities, of the scarabæns, the winged globe, &c. Instead of this, the munning is sometimes contained in a sort of sheath, made of paper or linen, and coated with a layer of plaster, on which are paintings and gilding. These paintings represent subjects relating to the duties of the soul, its presentation to the different divinities; and a perpendicular-hieroglyphical inscription in · the centre gives the name of the deceased, and of his relations, his titles, &c. The whole is then placed in the coffin. Those mummies which have been examined present very different appearances. One class has an opening in the left side, under the armpit, and in another the body is whole, Some of those which have been opened have been dried by vegetable and balsamic substances, others by salt. In the former case, aromatic gums or asphaltum were used (the gums, when thrown into the fire, give out an aromatic odor); in these the

if exposed to the air, they are soon affected. Those prepared with asphalt are of a reddish color, and are in good preservation. Those dried with saline substances are of a black, hard, smooth appearance. On exposure to the air, they attract moisture, and become covered with a saline substance. Those mummies which have no. opening are also partly preserved by saline substances, and partly by asphalt. In the latter, not only the cavities of the body are filled with it, but the flesh, bones, and every part, seem to be penetrated by it : it was probably injected in a hot state. These are the most commonly met with. They are hard, black, and without any dis-The whole nummics agreeable smell. prepared with salt alone are white and smooth, and resemble parchment. The coffin is usually of sycamore, cedar, or pasteboard; the case is entire, and covered, within and without, by paintings, representing funeral scenes, and a great variety of other subjects: the name of the deceased is also repeated on them in hicroglyphic characters. The cover, which is also entire, is ornamented in the same . manner, and contains, too, the countenance of the deceased in relief, painted, and often gilded. The breast is covered with a large collar; a perpendicular inscription occupies the centre, and funeral scenes the sides. The coffin is often enclosed in a second, and even third case, each of which is also ornamented with similar representations.—The name of mummies. is likewise given to human bodies preserved in other ways, either by accident or by some artificial preparations. The Guanches, or aboriginal inhabitants of the Cauaries, preserved the bodies of their de-ceased friends, which have been found in great numbers in the catacombs in Palma, Ferro, Teneriffe, &c. The natives called them xaxos. They are dry, light, of a yellow color and strong odor, and often injured by worms; they are enveloped in goat, skins, and enclosed in cases. They are supposed to have been dried in the air, after having had the entrails removed; and they were also covered with a sort of hardly requires any remedies; exposure aromatic varnish. Humboldt found num- to the cold should be avoided. The mies prepared in a similar manner in mean duration is from ten days to a fort-Mexico. The Peruvians, also, had the art night. or preserving the bodies of their incas. Mummies were formerly used in medicine, under the name of mumia vera, on account of the balsam they contained; but they have long ceased to be so em-

burial-place of the Capuchin monastery, at Palermo in Sicily, is a large subterranean vault, divided into several wide and lofty galleries, in the walls of which are niches containing several hundred human bodies, kept in an upright position by being fastened to the wall behind, and clothed in their usual dress. The monks have a peculiar manner of preserving bodies, which they keep secret. Natural mummies are frequently found preserved by the dryness of the air. In a vault of the cathedral at Bremen, called the lead- . cellar (because it was formerly employed for melting lead, for aqueducts and organ pipes), are bodies in good preservation. In the monastery of St. Bernard, on mount St. Bernard, the bodies of travellers who have been buried in the snow, are deposited in a chapel, in which there are open windows, protected by grates. They are placed in a sitting position, leaning each on another's breast. The cold prevents their putrefaction, and gives them time to dry. The Gaulish mummics, in the cabinet of comparative anatomy, in the Jardin du Roi, were found in Anvergne, in the last century. They bear no marks of any balsamic preparation, but are enveloped in linen, and appear to bave been interred with great care. uncertain whether their preservation was owing to the nature of the soil, or to a peculiar and now unknown process of embalming. Dried bodies have also been found in some of the saltpetre caves of the western parts of the U. States.

Mumps; the common name of the disease called, in scientific language, cymanche parotidea. It comes on with the usual febrile symptoms, which are soon attended with a swelling of the jaws and neck, sometimes on one side only, but commonly on both. The causes of it are not known with certainty. Children are more subject to it than adults. It seems, sometimes, to be the effect of cold. It is often epidemic, and, according to Cullen, contagious. In general, it runs its course without dangerous symptoms, and

Muncer, Thomas. (See Muntzer.)

Munchausen, Jerome Charles Frederic von, the original of the well-known narrator of wonders, was a German officer who served several campaigns against the Turks in the Russian service. He was a ployed.—See Sieber, Ueber Egyptische Turks in the Russian service. He was a Mumien (Vienna, 1820); Granville On passionate lover of horses and hounds; of Egyptian Mumsues (London, 1825). The which, and of his adventures among the

Turks, he told the most extravagant stories; and his fancy finally so completely got the better of his memory, that he really believed his most 'improbable and impossible fictions, and was very much offended if any doubt was expressed on the subject. In relating these monstrous lies, his eves would shine and start out of his head, his face became flushed, the sweat rolled down from his forchead, and he used the most violent gestures, as if he were really cutting off the heads of Turks, or fighting the bears and wolves that figure in his stories. Having become acquainted with the poet Bürger at Pyrmont, and being pleased with his society. Münchhausen used to relate those waking dreams to, him; and the poet afterwards published them, with his own improveinents, under the title of Wunderbare Abentheuer und Reisen des Herrn Von Münchhausen, translated from the English, London (Göttingen), 1787. A part of them had already appeared in the third volume of the *Deliciæ Academicæ* (Heilbronn, 1665), under the title of Mendacia Ridicula. The wit and humor of the work gave it great success, and it was translated into several foreign languages. When it appeared in England, the British reviewers labored to show that it was a satire upon the ministry. Münchhausen was very angry at the liberty thus taken with his name, and Bürger became involved in some difficulties in consequence. Schnorr, in four volumes (Göttingen, 1791—1800). Münchhausen when quite four volumes (Göttingen, advanced, married a very young wife, who, to the astonishment of every one, presented him with a son, the consequence of which was a suit prosecuted by his relations after his death, in 1797, in support of their claims to his estate.

MUNICH (in German, München), capis tal of the kingdom of Bavaria, a royal residence and archiepiscopal see, lies in a plain on the left bank of the Isar (Iser); lat. 48° 8' N.; lon. 11° 35' E. The population, including the suburbs of Au and. Haidhausen and the military, is 92,000. It is surrounded with a rampart, but is. not a place of great strength; on the outside of the rampart are the suburbs. The streets are generally broad and straight, but not well paved; the houses high, and of good appearance; the public edifices numerous; and the city is accounted one of the handsomest in Germany: few of, the old towns on the continent make a better appearance. The royal palace is a in 1741. (See Bavaria.) The French en large edifice, plain in its exterior, but in its tered it in 1800.

interior magnificent. The most remarkable apartment is the kaiser-saal, or emperor's hall, one of the grandest in Germany. There are several other palaces; twentytwo churches, some of them magnificent; council-house, arsenal, barracks, mint, theatres, operas, &c., &c. There are many charitable institutions, which are extensive and well supported. The literary and scientific establishments are numerous, among which are the central library, said to contain 400,000 volumes (20,000 of them incunabula), and 9000 manuscripts; the royal cabinet of medals, containing 10,000 Greek and Roman coins; the museum of antiquities, said to be the most complete in Germany; the academy of sciences, creeted in 1759, having an extensive collection of specimens of natural history, models and instruments; the military academy, lyceum, gymnasium; the veteri-nary and surgical schools, observatory, cabinet of medals, gallery of pictures, and botanic garden. In 1827, the university of Landshut was transferred to Munich: it has an agricultural chair, a botanical garden, anatomical and chemical institutes, and, in 1829, had 1800 students. The environs of the city are pleasant, being enlivened by gardens and various places of public resort. The Iser is not navigable; and Munich is not distinguished for trade or manufactures. The city has been much embellished and enlarged within the last fifteen years, particularly An enlarged edition was published by by the taste of the present king. Among the recent erections are the Odeon (p.incipal hall 130 feet long, 75 broad); the New Palace (680 feet long, 150 high), in front of which is a bronze statue of the late king; the Pinakotheca, or new edifice intended for the reception of the picture gallery, the Boisserec collection, the works of art, which were purchased by the king in Italy, &c., in nine halls and twenty-three cubinets; the Glyptotheca (q. v.); All Saints' chapel, painted in fresco, by Hess, &c. Munich was founded in 962, by Henry, duke of Saxony and Bavaria, on an estate belonging to the monks of Scheffelar, whence its name (München, from the German Mönchen, monks). The emperor Louis the Bavarian conferred on the city its privileges in 1315, and in 1392 it became the residence of the younger Bavarian line, which survived the others, and thus rendered Munich the capital of Bayaria. It was captured by Gustavus Adolphus in 1632, by the Austrians after . the battle of Blenheim (1704), and again

MUNICIPIA were those towns in the Roman empire which, elected their own magistrates (duumviri, collegium decurionum), and were governed either according to the Roman law, or their own laws. In the first case, they possessed the right of Roman citizenship in its widest extent (municipia cum suffragio); in the latter case, they could only attain to military offices of honor.

Münnich, Burkhard Christopher, count. of, born in the ducky of Oldenburg, 1683, where his father was a privy counsellor, received a careful oducation, then travelled to France, and, in 1701, became a captain in the Darmstadt troops. In 1705, he entered the service of Cassel, in which he attained the rank of colonel, after his liberation from captivity (he had been taken by the French in the battle of Denain). In 1716, he entered as colonel into the Polish-Saxon service, and in 1717, became major-general. Driven thence by the intrigues of the field-marshal-general count Flemming, he entered the Swedish, and after the death of Charles XII, in 1720, the Russian service. May 22, Peter the Great made him lieutenant-general. Catharine I conferred on him the order of Alexander. Peter II made, him, in 1727, general-inchief, and in 1728, gave him the title of count. In 1731, he became, under Anna, field-marshal-general, and president of the imperial military college. As such, he newmodelled the Russian army. In 1734, he besieged and took Dantzic; was, on his return, sent to Warsaw to quiet the troubles which had broken out among the Poles, and, in 1735, made a campaign against the Turks. In this war, he laid waste the Crimea in 1736, conquered Otchakow in 1737, crossed the Dniester at Sinkowza, defeated the Turks at Stewatschan, took the fortress of Choczim, and occupied Moldavia. His further progress was stopped by the peace concluded between the German emperor and the Turks, which was followed by a peace between Russia. merous monuments of art, and the hand-and Turkey, Sept. 18, 1739, at Belgrade. some church of St. Lambert, on the tower When Anna was on her death-bed, he of which are still seen the three iron induced her to appoint Ernest John, duke of Courland, regent of the Russian cmpire, and guardian of her successor, Ivan, during his minority, because he hoped in this way to become himself the virtual sovereign, while the duke was merely a nominal ruler. But being disappointed, he effected the downfall and imprisonment of the duke; after which the princess Anna, mother of Ivan, became the nominal re-

clared prime-minister, and, as such, effected a defensive alliance with Prussia. But the regent having formed a connexion with the courts of Vienna and Dresden, Munnich conceived himself injured, and demanded his dismission, in May, 1741. Having obtained it, he was on the point of going to Königsberg, when he was arrested by the order of the princess Elizabeth (who, in December, 1741, had obtained forcible possession of the throne), and was condemned to death; but the sentence was commuted into the confiscation of his estates, and banishment to Pelim, in Siberia, where he remained till Peter III recalled him, in 1762, and restored him to his former dignities. He died in 1767, aged 84. He wrote Ebauche pour donner une Idée de la Forme du Gouvernement de l'Empire de Russie (Copenhagen, 1774).

Muñoz, John Bantist, a Spanish historian, was born in 1745, at Museros, a village near Valencia, and studied in the university of Madrid. At the age of twentytwo, he wrote prefaces to the rhetoric of Louis of Grenada, and the logic of Vernei, both which displayed great erudition. He was appointed cosmographer of the Indies, in which situation, by order of the king, he began a history of America, of which he lived to publish only one volume, under the title of Historia del Nuevo Mondo. His other works, by which he acquired great reputation, are De Scriptorum gentilium Lectione ét profanarum Disciplinarum Studiis ad Christiana Pictatis Normam exigendis (Valencia, 1768); De recto Philosophiæ recentis in Theologia Usu Dissertatio (ibid, 1767); _Institutiones philosophicæ (ibid, 1768); a Treatise on the Philosophy of Aristotle, &c. He died in 1799.

MUNSTER; capital of the Prussian province Westphalia, see of a Catholic bishop, with a population of 20,837 inhabitants; lat. 51° 58' N.; lon. 7° 30' E. The fortifications are now converted into walks. Besides the cathedral, which contains nucages, in which were suspended the remains of John of Leyden, Knipperdolling and Krechting (1536), there are nine other churches, an episcopal palace, several hospitals and learned institutions. The Catholic university here was suppressed by the king in 1818, and its funds approprinted to the seminary for Catholic theologians (founded in 1824), to the gymnasium in Münster and Paderborn, and the seminary for Catholic priests. The gymgent. Munich, not being able to be-come generalissimo now had himself de-nasium has a library of 25,000 volumes.

Munster was anciently called Meilend, between the Pyreeus and Sunium. afterwards Memingerode, and finally received its present name from the splendid church and monastery (in German, Münster) erected by Charlemagne in the eighth century. In the sixteenth century, it was the theatre of the fanatical Molence of the Anabaptists. (q. v.) In 1648, the peace of Westphalia was signed in the hall of the councilhouse, which still contains the portraits of the ambassadors present on that occasion.

MÜNSTER, PEACE OF. (See Westphalia,

Münter, Balthasar, born at Lübeck in . 1734, studied theology at Jena. preacher to the orphan asylum in Gotha-(1760), and afterwards to the German society of St. Peter in Copenhagen, where he died in 1793. His Sermons are esteemed for their practical character. 'He was also the author of Geistliche Cantate (1763) Münter was apand Geistliche Lieder. pointed to prepare the unfortunate count Struensee for death, and wrote an account of his conversion, which was translated into almost all the Furopean languages. His son Frederic, bishop of Sceland and primate of the Danish church, born at Gotha in 1762, studied theology in the university at Copenhagen, and then spent two years at Göttingen. In 1783, he visited Italy and Sicily, resided some time in Rome, and, returning to Copenhagen, in 1788 was appointed extraordinary professor of theology, in 1790 ordinary professor in the university, in 1808 hishop of Secland and knight of the Dancbrog, and died in 1930. Among his numerous and learned works, the most important are his . Description of the Two Sicilies; Specimen Versionum Danielis Copticarum (Route, 1786), from a manuscript discovered by him in Rome; Statutes of the Templars (also discovered by him); Religion of the Carthaginians (2d cd., Copenhagen, 1821); Antiquarian Essays; Miscellanea Haf-. nensia (2 vols., 1816-25); Ecclesiastical History of Norway and Denmark (3d vol. left in MS.); the Star of the Wise Men, containing investigations into the year of Christ's birth.-Ilis daughtet Frederica Brun, born at Tonna in 1765, married a Danish counsellor in 1783, is distinguished for her poetical and prose writings. In 1791, she travelled in France and Switzerland, and, in 1795, visited Italy, whither she again returned in 1805, and spent several years in Italy and Switzerland. Her travels are described in her Episoden, her Briefe proclaimed a community of goods. Anaus Rom, &c. Her poems have also been other funatic, by the name of Pfeifer, enpublished in three volumes.

MUNZER, of MUNTZER, Thomas, a celebrated German fanatic, was born at Stol-berg in the Hartz. If the tradition, that his father was illegally executed by a count, is true, this circumstance may account for the direction which his feelings afterwards assumed. He probably studied at Wittenberg, where he received the degree of master. He was afterwards a teacher at Aschersleben, and preached for several years in different places, every where displaying a violent entnity to the papacy. Luther's doctrines began about this time to spread widely, and men's minds were roused to shake off the papal yoke; but at the same time the spirit of fanaticism began to spread abroad. Whilst Luther (q. v.) was shut up on the Wart-burg, and Carlstadt (q. v.) was committing the greatest violences in Wittenberg, the sect of Anabaptists (q. v.) was formed at Zwickau, by Klaus Storch, a clothier, with whom Marx Stübner, Martin Kellner and Münzer associated themselves. They entered Wittenberg with their followers; but Luther attacked them with such force, that both Storch and Carlstadt were obliged to leave the city. Münzer promulgated his doctrines with more zeal and success at Altstedt in Thuringia, where he preached from 1523. He assailed the papacy and Lather with great violence, and excited the people to revolt against the authorities, particularly after they were forbidden to attend his preaching. He easily persuaded them that God would soon deliver Christendom from the yoke under which it groaned. His followers increased so rapidly, that Frederic, elector of Saxony, and John, duke of Weimar. summoned him to Weimar, to answer for his conduct, in 1524. Nothing further, however, was done, than to direct the authorities of Altstedt to remove so dangerous a person from the city. Münzer disappeared, and was not heard from again for a year, when he made his appearance at Nuremberg. Not being allowed to remain there, he went to Schaffhausen, where he continued six months, and then returned to Saxony. In Mühlhausen, he gained an entire ascendency over the populace, deposed the city council, which forbade his preaching, and appointed a new, one, permitted the pillage of the monasteries and of the houses of the rich, and tered the Eichsfeld, with his troop of plun-MUNYCHIA; one of the ports of Athens, dering followers, and joined Münzer.

This event, and the information that 40.000 peasants had assembled in Franconia, and plundered and burnt 150 castles of the nobles, and 23 monasteries, inflamed He roused his adherents in Frankenhausen, the mountaineers of Mansfeld, and the peasants at Mühlhausen, Langensalza and Tennstedt, and prepared for the war, promising his followers, that he would raise them all to the rank of nobility. Leaving Pfeifer governor in Mühlhausen, he proceeded, with 300 chosen men, to Frankenhausen, broke off the negotiations which had been opened with. the count of Mansfeld, and reknalled the ardor of the towns people. Frederic the Wise, elector of Saxony, was now dead, and his more energetic successor, John, associated himself with George, duke of Saxony, Philip, landgrave of Hesse, and Henry, duke of Brunswick, and sent a force against the insurgents, who amounted to about 8000 men, advantageously posted on a beight near Frankenhausen, and protected by a barrier of wagons. The princes attempted to effect the peaceable submission of the revolters, but Münzer would not listen to terms, and was totally defeated, after an obstinute struggle, May 15, 1525. insurgents lost from 5000 to 7000, killed, and the survivors threw themselves into Frankenhausen. Münzer concealed himself in bed, feigning sickness, but was accidentally discovered, and, being carried to Heldrungen, confessed his accomplices on the rack. Pleifer, who attempted to flee from Mühlhausen, was also made prison-They were condemned, with twentyfour others, and executed at Mühlhausen. Münzer behaved with the greatest pusillanimity, and was unable even to pronounce the creed at the execution. After the decapitation, his body was impaled, and his head stuck upon a stake. (See Peasants' War.

MURAL ARCH (from murus, a wall); a wall, or arched wall, placed exactly in the plane of the meridian, for fixing a large quadrunt, sexuant, or other instrument, to observe the meridian, altitude, &c., of the heavenly bodies.

MURAT, Joachim, the son of an innkeeper at Cahors, born in 1771, was a man of an elegant person, spirited and active, but distinguished for the most daring courage, rather than sagacity and strength of mind, and finally fell a sacrifice to his rashness. When a boy, he escaped from the college of Toulouse, where he had been placed to prepare him for the ecclesiastical profession. He was afterwards a common chasseur, and deserted; served in

the constitutional guard of Louis XVI: then entered the 12th regiment of mounted chasseurs; rose, by his zealous Jacobinism, to the rank of lieutenant-colonel; was afterwards removed as a terrorist, and remained without employment till his fate placed him in comexion with Bonaparte, whom he accompanied as an aid to Italy, in 1796. Here he distinguished himself as a cavalry officer by his impetuous courage, and followed the general to Egypt. He decided the victory over the Turks at Aboukir, and returned with Bonaparte as general of division. On the 18th Brumaire, he expelled the council of five hundred from the hall of St. Cloud, at the point of the bayonet, and in 1800 married. Marie Annonciade Caroline (born in 1782), the youngest sister of the first consul. He was present at the battle of Marengo, and, in 1804, was made marshal of the empire, grand-admiral, and prince of the French empire. His services in the campaign of 1805, against Austria, in which he entered Vienna at the head of the army, were rewarded, in 1806, with the grand-duchy of Berg. The war of 1806 with Prussia, and of 1807 with Russia, where he followed up the victories of his master, with his cavalry, procured for him the distinction of occupying Madrid with a French army in Napoleon placed him on the throne of Naples, July 15, 1808. Murat, under the title of king Joachim Napoleon, governed with prudence and vigor, chiefly following the steps of Joseph. His attempt to conquer Sicily miscarried. His wife, a woman of sense and character, effected much good at home, while Murat himself was called to accompany Napoleon to Russia, at the head of all his cavulry. He was here defeated at Tarutina (October 18). Upon the retreat, Napoleon intrusted to him the command of the wreck of the army. The emperor accused him, in the Moniteur, of incapacity in this command. Murat returned to Naples full of indignation, and sought the friendship of Austria. He, however, once more fought with Napoleon, in the fatal campaign of Germany (1813). After the battle of Leipsic, he returned with his army to his kingdom, and negotiated for its preservation, with Austria and England. The former actually concluded an alliance with him (June 11, 1814), to which Russia and Prussia acceded, in 1815; but England would only enter into a truce, since Ferdinand of Sicily, her ally, would receive no indemnification for Naples. The situation of Murat was consequently doubtful. He advanced with his army, in February, 1814, as far as

the Po: but his hesitation in attacking the French excited the mistrust of England, as much as the hesitation of England to acknowledge him as an ally had excited his own suspicions. At the congress at Vienna, the Bourbons solicited for his dethronement, and England accused him of treachery. He took up arms, in 1815, for Napoleon, as was then thought, while he was vet negotiating at Vienna, and formed a plan to make himself master of Italy as far as the Po. Towards the end of March. after Napoleon had entered France, he advanced with his army, partly by Rimini, partly by Rome, Florence and Modena, attacked the Austrians, and called the Italians to independence, at the very time that Austria and the allies, upon his repeated assurances in March, that he would remain true to them against Napoleon, had determined to recognise him as king of Naples. It was too late. Austria therefore took the field against him. Forced to retreat at Ferrara by Bianchi (April 12), surrounded by Nugent, defeated by Bianchi at Macerata (or Tolentino) (May 2 and 3), Murat was deserted by the greater part of his army. May 19, he cutered Naples as a fugitive. The country had now declared against him. He fled in disguise to the island of Ischia, from whence he sailed for France, and landed at Carnes, May 25. His family went on board the English fleet, and found in Austria protection and a home. Napoleon would not permit him to come to Paris. But he kept up a correspondence from Toulon with his adherents in Italy. After the overthrow of Napoleon, he escaped, in the midst of continual dangers, to Corsica, while his agent, Macirone, treated with the allies for a place of refuge for But, pursued as a rebel in Corsica, invited to return to Naples by his adherents and by traitors (see Medici), and encouraged to do so by several brave officers, who were devoted to him, he determined to sail, with 250 of his adherents, to Naples, to recover his lost throne. Every thing was prepared, when his aid, Macirone, brought an Austrian passport, and the permission to reside in Austria. was too late. Murat set sail that very night (September 28), with six barks. A gale, on the 6th October, off the coast of Calabria, dispersed his fleet. Only two of the vessels entered the road of S. Lucido. Murat now wished to sail for Trieste, but the captain of his vessel declared that he must hand for provisions. Murat then dettermined to go on shore. General Fran-

(October 8). But his declaration, "I am Joachim, your king," produced no effect. He was pursued. He forced his way back to the water, and leaped into a boat to go to his ship, but was seized and carried in chains to Pizzo, where he was brought before a court-martial, and condemned to be shot. The sentence was executed Octo-He met his fate with courage.-See the Histoire des six derniers Mois de la Vie de Joachim Murat (from the Italian of general Colletta, Neapolitan minister of war during the constitutional government, Paris, 1821); and general Franceschetti's Mem. sur les Evenemens qui ont précédé la Mort de Jouchim I (Paris, 1826). Murat's widow (see Bonaparte) is now called countess of Lipano, and lives under the protection of Austria, near Trieste, where she has carefully educated her four children. Her second daughter was married (1825) to count Rusponi of Ravenna. His eldest son, Achille, who resided in Florida, author of Lettres Étals-Unis, has returned to sur les France.

MURATORI, Lewis Anthony; a distinguished Italian antiquarian and historian. He was born at Vignola, in the Modenese territories, in 1672. Having adopted the ecclesiastical profession, and received the order of priesthood, he obtained some preferment in the church. In 1684, he was made keeper of the Ambrosian library at Milan, and, subsequently, librarian and archivist to the duke of Modena. His literary productions are voluminous and valuable; but his fame principally depends on his labors as an editor of the works of His works fill forty-six folio, thirty-four quarto, and thirteen octavo, vol-Among them are Della perfella Poesia Italiana (1706, 2 vols., 4to.); Antiquitates Italian Medii Ævi (1638, 6 vols., tolio); Novus Thesaurus Velerum Inscriptionum (17:2), 4 vols., folio); Anecdota La-tina (4 vols., 4to.); Anecdota Græca (4to.); his great collection Rerum Italicarum Scriptores ab Anno 500 ad 1500 (27 vols., folio), of which the two supplementary volumes appeared after his death. He was also the author of Annali d'Italia` (1744-1749, 12 vols., 4to., repeatedly republished in 18 vols., 8vo.); Dissertazione sopra Antichità Italiane (1751, 3 vols., 4to.). Muratori died in 1750.

vessels entered the road of S. Lucido.
Murat now wished to sail for Trieste, but the captain of his vessel declared that he must land for provisions, Murat then dermined to go on shore. General Frances born in April, 1526. In his eighteenth eschetti and 26 soldiors attended him year, he taught the languages at Ville-

neuve, and afterwards at Poictiers, Bourdeaux, and Paris. In the latter place, an. accusation of an infamous nature caused him to be thrown into prison. At Toulouse, where he had settled, after obtaining his liberation, he taught jurisprudence for some time, when a second charge, of a similar nature, was brought ugainst him, and, in 1554, he was condemned to be burnt in effigy. He escaped to Padua, where, as well as at Venice, he continued to give public lectures till 1560, when he accepted an invitation given him by cardinal Ippolito d'Este to Rome. In 1563, he began to teach Greek and Latin, with philosophy and civil law, at Rome. 1576, he took the vows, became a member of the college of Jesuits, and died in 1785. His works, consisting of orations, letters, poems, sacred hymns, &c.; Variae Lectiones; four Disputations on the Pandects; On the Origin of Laws; Carmina Juvenilia, &c., all written with much purity and elegance, were collected in 1727 (Verona, 5 vols., 8vo.). Another edition appeared at Leyden, in 1789 (4

Murfreesborough; a post-town in Rutherford county, Tennessee, 32 miles south-east of Nashville. It was formerly the seat of the state government; population, in 1820, about 1200. It was established about the year 1811. The town has a healthy situation, and the district in which it is situated is one of the most fertile in the state. The road is good to Nashville, at which place steam-boat navigation

commences

MURIATE OF BARYTES. (See Barytes.) MURIATES, in chemistry; a genus of salts, formed from the muriatic acid with

· 'certain bases.

Buck to

The name of this MURIATIC ACID. acid is derived from muria, the Latin name of sea salt, from which it is come mouly extracted. It is also called, in commerce, the marine acid, and the spirit of salt. It is denominated the hydro-chloric acid by the French, in allusion to its composition. It is said to have been known as early as the time of Basil Valentine, though, as a gas, it was unknown . till 1772, when it was obtained by Priestley, by heating the liquid acid, and reriving it in glass vessels filled with mercury: It is now procured in the gase-Fous form, from the decomposition of common salt by sulphuric acid, and may be collected without the use of a mercurial cistern, simply by delivering it from the bottom of a viul or jar: the gas, being of a

specific gravity of 1.259, displaces the air, and completely occupies the vessel. If an inflamed taper be immersed in it, it is immediately extinguished. It is destructive of animal life; but the irritation produced by it on the epiglottis scarcely permits its descent into the lungs. It is merely changed in bulk by alterations of temperature, but experiences no change of state. It is composed of hydrogen and chlorine, in the ratio, by weight, of thirty-six of the latter to one of the former. It is absorbed with great rapidity by water. A bottle full of the gas, if opened in water, is almost instantaneously filled. Water absorbs about 500 volumes of this gas: and the solution, when cold, has the den-. sity of 1.1958, and consists of 40.39 real acid, and 59.61 water. The common process for obtaining liquid muriatic acid is the following: common salt, sulphuric acid and water, equal weights; the acid being mingled with one third of water, and, when cold, poured on the salt; the gas evolved is conducted through reservoirs of water, and subjected to pressure in contact with it. The specific gravity of the acid thus obtained is 1.17." It is always slightly tinged with yellow, from the presence of muriate of iron, derived from the vessels employed in the process. At the specific gravity of 1.203, it boils at 107°. It combines, like the other powerful acids, with the alkalies, earths and metallic oxides, forming a very peculiar class of salts. Muriatic acid is a valuable article of the materia medica. It is particularly used in cases of dyspepsia that are attended with morbid secretions, also in hepatic derangements and cutaneous diseases. It is also of considerable value as a disinfecting agent.

Murillo, Bartolomeo Esteban, the greatest of all the Spanish painters, was born at Seville, Jan. 1, 1618. He received his first instructions in the art from his relation, Juan del Castillo; but the latter having gone to settle at Cadiz, Murillo was obliged, for subsistence, to paint banners and small pictures for exportation to America. In that business, he obtained full employment, and began to distinguish. himself as an able colorist. He was still very young, when he happened to see some works of Pedro de Moya, who was passing through Seville, on his way to Cadiz, which, being painted in the style of Vandyke, inspired him with the desire of imitating that great artist, under whom De Moya had studied shortly before his gas-bottle through a narrow tube, at the decease. The time he was able to avail him self of Moya's instruction was very

short, and he resolved afterwards to repair grace of Correggio; but, as a faithful imito Italy for improvement. But his means were totally inadequate to meet the expenses of such a journey. Collecting, however, all his resources, he bought a quantity of canvass, divided it into a number of squares, upon which he painted subjects of devotion and flowers, and, with the produce of the sale of these, set out upon his journey, unknown to his relations and friends. On his arrival et Madrid, he waited upon Velasquez, his countryman, and communicated his plans to him. Struck with the zeal and talents of the young artist, Velasquez treated him with the greatest kindness, and diverted him from his project of the journey to Rome, by procuring him full employment' at the Escurial, and in the different palaces of Madrid. Murillo returned to Seville in 1645, after an absence of three years. The following year, he finished painting the little cloister of St. Francis; and the manner in which he executed it produced the greatest astonishment among his countrymen. His picture of the Death of Santa Clara, and that of St. James distributing Ahns, crowned his reputation. In the first, he showed himself a colorist equal to Vandyke, and, in the second, a rival of Velasquez. They obtained him a multitude of commissions, which procured him an independent fortune. His success, however, never led him to be care-He gradually perfected his manner, by giving more boldness to his pencil, without abandoning that sweetness of coloring which distinguished him from all · his rivals, increasing its strength, and giving greater freedom to his touch. He euriched the churches and convents of Se-·ville, and other cities, with numerous Having been invited to Cadiz, to paint the grand altar of the Capuchins, be there executed his celebrated picture of the Marriage of St. Catharine. As he was about to finish it, he wounded himself so dreadfully on the scaffolding, that he continued to feel the effects of the injury until his death, at Seville, in April, 1682. To the greatest merit as an historical painter, Murillo joined equal excellence in flowers and landscape. His works afford proofs of the perfection to which the Spanish school had attained, and the real character of its artists; for, as Murillo never quitted his native country, he could not be influ-throat, that soon proves mortal. enced by any foreign style; and his originality of talent places him in the first rank among the painters of every school. He has neither the charming dignity of Raffaelle, the grandeur of Caracci, nor the

tator of nature, if he is sometimes vulgar . and incorrect, he is always true and natural; and the sweetness, brilliancy, freshness and harmony of his coloring, make

us forget all his defects.

Murphy, Arthur, a dramatic writer, born in Ireland, 1727, was sent, at the age of ten, to the college of St. Omer, where he remained six years, and, on his return, was employed in the counting-house of his uncle, who intended to make him superintendent of an estate in Jamaica; but his inclination being averse to this destination, he repaired to his mother, then resident in London. At first, he accepted a situation in a banking-house, but was soon altogether engrossed by literature. In October, 1752, he published the first number of the Gray's Inn Journal, a literary periodical, and first essayed his dramatic powers in the farce of the Apprentice, which was followed by the Upholsterer. He soon after made an attempt as an actor, in the character of Othello, and held an engagement with Foote for a single season, and then retired. On quitting the. stage, he determined to study the law, and was admitted a barrister by the society of Lincoln's Inn, in 1757. In 1759, he produced the Orphan of China, from the tragedy of Voltaire, and a variety of other pieces, of tragedy, comedy and farce, for the groundwork of which he was generally indebted to some foreign original, Of these, the Grecian Daughter, the Way to keep him, All in the Wrong, and Know your own Mind, still keep the stage. In 1788, he retired altogether from the bar, and occupied himself entirely for the In 1792, appeared his Essay on the Life and Genius of Doctor Johnson; and, in 1793, he published his translation of Tacitus, with historical supplements. In 1798, appeared his tragedy of Λ rminius; and his warmth in favor of the then pending war obtained him a pension of £200 per annum. He died in June, 1805, in his seventy-eighth year. One of his latest works was a Life of Garrick; and a translation of Sallust has appeared since his death.

MURRAIN, or GARGLE; a contagious disease among cattle, principally caused by a kot, dry season, or general putrefaction of the air, which begets an inflammation of the blood, and a swelling in the symptoms are a hanging down and swelling of the head, abundance of gum in the eyes, rattling in the throat, a short breath, palpitation of the heart, staggering, a hot

breath, and a shining tongue.

Murray, Alexander, a distinguished commodore in the navy of the U. States, was born in Chestertown, Maryland, in the year 1755. He went carly to sen, and, at the age of eighteen, commanded a mer-chant vessel in the European trade. At twenty-one, he was appointed a lieutenant in the navy; but no vessel being in readiness to receive him, he solicited and obtained a correspondent rank in the first Maryland regiment, under the command of colonel Smallwood. His conduct in the battles of Whiteplains, Flatbush and New York was marked by the greatest gallantry. . He was promoted to a captaincy, and served unremittingly and bravely to the close of the campaign of 1777. Sickness obliged him to withdraw, for a time, to his father's house. As soon as he recovered, he took command, at different periods, of several well-appointed letters of marque. In these, he fought various desperate battles, that showed him an intrepid and skilful officer. After he had taken an English letter of marque of his own force, and had prisoners on board equal in number to his own crew, he was captured by an English fleet. Before long, he was regularly exchanged. He then volunteered his services as a lieutenant, on board the American frigate Trumbull, which had scarcely cleared the capes of Delaware, when, in the night, and during a terrible storm, she was attacked and taken by two British vessels of war. Lieutenant Murray was severely wounded in this sanguinary engagement. On his recovery and exchange, he was selected as the first lieutenant of the Alliance frigate, commanded by commodore Barry. In this ship he remained until the termination of the revolutionary war. He had shared in thirteen battles in the army and navy. When the new American government organized a havy, captain Murray was one of the first officers recalled into service. The U. States corvette Montezuma was assigned to hint for the protection of the American trade in the American seas. On his return from the cruise, public thanks for his conduct were given him by the president of the U. States. He was promoted to the command of the frigate Insurgent, and soon afterwards transferred to that of the frigate Constellation. His next sphere of exertica was in the Mediterranean sea, to which he was despatched with a squadron, to defend the American trade against the Barbary powers. Being attacked in his ship when alone, near the bay of Tripoli, by a squadron of Tripoline gun-boats,

he dashed in among them, and, after a spirited action of more than an hour, drove them into their own harbor. Commodore Murray's last appointment was that of commander of the navy-yard in Philadelphia,—a post in which he rendered important services, and gave universal satisfaction. He held it during the rest of his life. He died Oct. 6, 1821, at his seat, near Philadelphia. He united to the highest firmness and resolution a remarkable mildness and serenity of temper. Few men were personally more beloved. His remains were interred with the highest honors.

MURRAY, Lindley, author of the most useful and popular grammar of the English language, was born in the year 1745, at Swatara, near Laneaster, in the state of Pennsylvania, of Quaker parents in the middle station of life. He received the rudiments of his education at Philadelphia, in the academy of the society of Friends. In 1753, his father removed, with his family, to New York, where Lindley was placed at a good school. At an early age he entered a counting-house, being destined for the increantile profession; but, having been severely chastised for a breach of domestic discipline, he privately left his father's house, took up his abode in a seminary at Burlington, New Jersey, and there contracted a love of books and study. When brought back, after some time, he prevailed upon his father to procure a classical futor for him, under whom he applied bimself with diligence and success. From the precepts and example of his parents, he imbibed lasting sentiments of morality and religion. He now undertook the study of the law in the office of an eminent counsellor, the celebrated John Jay being his fellow-student. At the age of 21 or 22 he was called to the bar, and soon obtained practice. Within two years, he married a lady, with whom he lived in the tenderest union for more than half a century. He was very successful and sedulous in his business as a lawyer, until the war broke out between Great Britain and the colonies. About that time, the decline of his health induced him to remove into the country, about 40 miles from New York. In this retreat he passed four years; and, at the expiration of this time, he was driven back to the city (then in possession of the British) by the necessity of procuring funds for the subsistence of his family.

The profession of the law being no longer lucrative, he turned merchant again, and accumulated property enough to enable : him to retire from business, about the

period of the establishment of American independence. He then purchased a beautiful country-seat, on the banks of the river Bellevue, about three miles from New York; but a severe sickness subjected him to a general debility of the muscles, for the cure of which he was induced to go, with his family, to Eugland. He intended to remain there only two years; but the local attachments which he formed, and his bodily infirmities, detained him for the rest of his life. He bought a very pleasant estate at Holdgate; about a mile from the city of York. Here, rendered sedentary by the weakness of his muscles; he gave himself chiefly to reading and composition. His first book is entitled the Power of Religion on the Mind, &c., and appeared in 1787. It was anonymous, gained much reputation, and has passed through seventeen editions. His Grammar was first issued in 1795. was greatly enlarged and improved in successive editions, and has not yet been surpassed or superseded. It is still, altogether, the best extant, of the English language. It was succeeded by his English Exercises and Key, intended to correspond with, and illustrate, the Grammar; abridgments of which treatises were published in 1797, and met with an extensive sale, which they still maintain. His next work was a compilation, entitled the English Reader, also extensively used. In 1502, he produced a French compilation of the same kind, entitled Lecteur Français, and, subsequently, an Introduction an Lecteur Français; and, in 1804, an Puglish Spelling Book. He also published a Selection from Horne's Commentary on the Psalms, and the Duty and Benefits of Reading the Scriptures. His publications were Incretive, and acquired public favor, both in Great Britain and the U. States. In 1809, he finished interesting Memoirs of his life, printed since his decease. He lived upwards of 16 years from that period, a martyr to bodily infirmities and diseases, which he bore with the most exemplary fortitude and Christian screnity. He expired Feb. 16, 1826, in his 81st vear. He had been a highly useful laborer for education, and was a man of a very amiable character.

MURRAY, William Vans, distinguished in the annals of American diplomacy and oratory, was born in Maryland about the year 1762. Having received a classical education, he went to London, after the peace of 1783, and resided there three years, as a student of law in the Temple. He published, in the British capital, a

pamphlet on the Constitutions and Laws of the U. States, suggested by the observa-tions of Price, Turgot and Mably, which was much commended. About 1785, he returned to Maryland, where he engaged in the practice of the law; but his general reputation and merits caused him to be soon called to the councils of his country. He was first elected a member of the legislature of Maryland. For upwards of six: years (from 1790 to 1797), he held a seat in the house of representatives of the U. States. Few of that body equalled him in eloquence, or the other qualifications of a moruber of a deliberative assembly. His name ranks with the most conspicuous in the legislative annals of that period. In 1797, he declined a reflection to congress, having too long neglected his private affairs. One of the last acts of general Washington, as president of the U. States, was the appointment of Mr. Murray as minister plenipotentiary to the Batavian republic. The minister arrived at the Hague at a crisis when abilities, zeal and address such as his were required, to counteract the unfriendly influence of France over the Batavian government. He succeeded in preserving harmony between the American and Batavian republies; and the first advances to a reconciliation between the U. States and France, were made in the intercourse of the French charge d'affaires, at the Hague, with Mr. Murray. Proposals being made for a direct negotiation, they were accepted by Mr. Adams, then president of the U. States, who appointed Mr. Murray sole envoy extraordinary to the French republic, for the purpose. Afterwards. judge Ellsworth and governor Davie were associated with him. The story of this negotiation is one of the most remarkable portions of the civil history of the U. States. Mr. Murray assisted in making the convention, which was signed at Paris, Sept. 30, 1800, between this country and He returned to his station as France. minister resident at the Hague, and, in December, 1801, to his country. health being much impaired, he retired to his seat in Cambridge, on the eastern shore of Maryland. A rapid consumption of the lungs was the cause of his death, in 1803, in the 42d year of his age. He was one of the most accomplished and gifted of American gentlemen.

MURRAY, William (Sec Mansfield, Earl of.)
MURRINE, or MURRHINE VASES (vasa murrhina); splendid antique vessels, which were equally distinguished for the costiness of their material, and the beauty of

their execution. They were brought, by tory over Mithridates, and bore an immense price. supposed them to have been made of a his productions. He died in 1787. mineral of the class of sardonyx or agate. or of Chinese steatite; others, of a kind of porcelain or glass. It is most probable, that there were vessels of this kind, of natural as well as artificial materials; and that, being similar in their exterior, they were easily confounded with one another, and acquired a common appellation. Of the first kind is the famous Mantuan vase, so called, in the museum at Brunswick; the well-known Barberini, now Portland vase (q. v.), in the possession of the duke of Portland, is a specimen of the latter kind.

MURTEN. (See Morat.) Murviedro. (See Morriedro.)

Musatus, a celebrated poet of mytholog-'ical antiquity, was born at Athens. Some call him the son of Eumolpus and the Moon; others, of Linus or Orpheus. . He was probably called the son of Orpheus because he was his follower and pupil. He was not only a poet, but also a philosopher, and is said to have introduced religious ceremonies, according to the instructions of Orpheus, particularly into the The an-Eleusinian and other mysteries. cients attribute to him many works, of which some verses only have come down to us.-A later Musicus, who probably lived four or five centuries after Christ, is the author of an crotic poem of the loves of Hero and Leander (Heinrich's edition, Hanover, 1793; Passow's, with a translation, Leipsic, 1810).

MUSAGETES (leader of the Muses); an appellation of Apollo, which belongs to him as the patron and instructer of the oftener given to Hercules, in inscriptions on gems, &c., and also by authors.

Musaus, John Charles Augustus, was born at Jena, studied theology there, and was to have become a parish priest, near Eisenach, but was objected to by the peasants, because he had once danced ardson's Grandison was very popular at that time, and Musaus published a satirical parody, under the title of Grandison the Second, which was well received. He was afterwards master of the pages at the Weimar court, and, in 1770, appointed professor in the gymnasium at Weimar. His next production was a satire on the extravagances of the physiognomists,— Physiognomical Travels. His German Popular Tales (1782; since edited anew by Wieland and Fred. Jacobs); his Freund

Heins Erscheinungen in Holbeins Manier Pompey, from Asia to Rome, after his vic-. (1785); and a new series of tales, under the title Straussfedern (of which only the Some antiquarians have first volume was from his pen), are among

MUSCADINE, MUSCADEL, MUSCATEL (from the Italian moscadello, on account of its flavor); a kind of sweet wine. Of the Italian, the best sorts are the Syracusan, the Moscato, Giro, and Cannanao of Cagliari; the Muscat of Algheri, and Oliastra in Sardinia. The best French muscadels, are those of Rivesaltes and Lunel; after which, rank the Frontiguac and the Montbadin. Cyrus and Candia also yield muscadel.

The parts that, Muscle (musculus). The parts that are usually included under this name consist of distinct portions of flesh, susceptible of contraction and relaxation; the motions of which, in a natural and healthy state, are subject to the will; and, for this reason, they are called voluntary muscles. Besides these, there are other parts of the body that owe their power of contraction to their muscular fibres; thus the heart is a muscular texture, forming what is called a hollow muscle; and the stomach, intestines, &c., are enabled to act upon their coments, merely because they are provided with muscular fibres: these are called involuntary muscles, because their motions are not dependent on the will. The muscles of respiration being, in some measure, influenced by the will, are said to have a mixed motion. The names by which the voluntary muscles are distinguished, are founded on their size, figure, situation, use, or the arrangement of their fibres, or their origin and insertion; but, besides these particular distinctions, there are certain general ones that require to be Muses. In later times, this appellation is, noticed. Thus, if the fibres of a muscle are placed parallel to each other, in a straight direction, they form what anatomists term a rectilinear muscle; if the fibres cross and intersect each other, they constitute a compound muscle; when the fibres are disposed in the manner of rays, a radiated muscle; when they are placed obliquely with respect to the tendon, like the plume of a pen, a penniform muscle. Muscles that act in opposition to each other are called antagonists; thus every extensor has a flexor for its antagonist, and vice versa. Muscles that concur in the same action, are termed congeneres. The muscles being attached to the bones, the latter may be considered as levers, that are moved in different directions by the contraction of those organs. end of the muscle which adheres to the

most fixed part is usually called the origin; and that which adheres to the more movable part, the insertion of the muscle, In almost every muscle, two kinds of fibres are distinguished; the one soft of a red color, sensible and irritable, called fleshy fibres; the other, of a firmer texture, of a white, glistening color, insensible, without irritability, or the power of contracting, and named tendinous fibres. They are occasionally intermixed, but the fleshy fibres generally prevail in the belly or middle part of the muscle, and the tendinous ones in the extremities. If these tendinous fibres are formed into a round, slender cord, they form what is called the tendon of the inuscle; on the other hand, if they are spread into a broad, flat surface, it is termed an aponeurosis. fibres that compose the body of a muscle are disposed in *fusciculi*, or bundles, which are easily distinguishable by the naked eye; but these fasciculi are divisible into still smaller ones; and these, again, are probably subdivisible ad infini-The most minute fibre we are able to trace seems to be somewhat plaited; these plaits, disappearing when the fibre is put upon the stretch, seem evidently to be the effect of contraction, and have probably induced some writers to assert, that the muscular fibre is twisted or spiral. A fibre is essentially composed of fibrine and ozmazome, receives a great deal of blood, and, at least, one nervous filament. By chemical analysis, muscle is found to consist chiefly of fibrine, with albumen, gelatine, extractive, phosphate of soda, phosphate of ammonia, phosphate and carbe rate of lime, and sulphate of potassa. Each muscle is surrounded by a thin and deligate covering of cellular membrane, which, dipping down into its substance, encloses the most minute fibres we are able to trace, connecting them to each other, lubricating them by means of the: fat which its cells contain, in more or less quantity in different subjects, and serving as a support to the blood-vessels, lymphatics and nerves, which are distributed through the muscles. The muscles owe the red color which so particularly distinguishes their belly part, to an infinite number of arteries, which are every where dispersed through the whole of their retic-. ular substance; for their fibres, after having been macerated in water, are (like all other parts of the body divested of their blood) found to be of a white color. The veins, for the most part, accompany the arteries, but are larger and more nume-The lymphatics are numerous, as rous.

might be expected from the great proportion of reticular substance, which is every. where found investing the muscular fibres. The nerves are distributed in such abundance to every nuscle, that the muscles of the thumb alone receive a greater proportion of nervous influence than the largest viscera. (See Muscular Motion.)

Muscle Shoals; an expansion of the Tennessee river, about 250 miles from its mouth, and the same distance from the . Whirl, or Suck, where the river branches through the Cumberland mountain. The expansion is 25 miles long and 2 or 3 in width, and receives its name from the fresh, water clams found there.

Muscovy. (See Russia.)
Muscular Motion. Muscular motions are of three kinds, namely, voluntary, involuntary, and mixed. The voluntary motions of muscles proceed from an exertion of the will: thus the mind directs the arm to be raised or depressed, the knee to be bent, the tongue to move, &c. The involuntary motions of muscles are performed by organs, without any attention of the mind, as the contraction and dilatation of the heart, arteries, veins, absorbents, stomach, intestines, &c. mixed motions are those which are in part under the control of the will, but which ordinarily act without our being conscious of their acting; and are perceived in the muscles of respiration, the intercostals, the abdominal muscles, and the diaphragm. When a muscle acts, it becomes shorter and thicker; both its origin and insertion are drawn towards its. middle. The sphincter muscles are al-, ways in action; and so likewise are antagonist muscles, even when they seem at rest. When two antagonist muscles move with equal force, the part which they are designed to move remains at rest; but if one of the antagonist muscles remains at rest, while the other acts, the part is moved towards the centre of mo-When a muscle is divided, it contracts. If a muscle be stretched to a certain extent, it contracts, and endeavors to. acquire its former dimensions as soon as the stretching cause is removed. When a muscle is wounded, or otherwise irritated, it contracts independently of the will; this power is called irritability, and it is a property peculiar to, and inherent in the When a muscle is stimulated, muscles. either through the medium of the will, or any foreign body, it contracts, and its contraction is greater or less in proportion as the stimulus applied is greater or less. The contraction of muscles is different,

according to the purpose to be served by their contraction: thus the heart confracts and uniformly. The intensity of muscular contraction, that is, the degree of power with which the fibres draw themselves together, is regulated by the action of the brain: it is generally regulated by the will, according to certain limits, which are different in different individuals. A particular organization of the muscles is favorable to the intensity of their contraction: this organization is a considerable volume of fibres, strong, of a deep red, and striated transversely. The cerebral influence, and the disposition of the unuscular tissue, are the two elements of the intensity of muscular contraction. A very great cerobral energy is rarely found united, in the same individual, with that disposition of the muscular fibres which is necessary to produce intense contractions: these elements are almost always in an inverse ratio. When they are united, they produce astonishing effects. Perhaps this union existed in the athleta of antiquity; in our times, it is observed in certain mountebanks. The muscular power may be carried to a wonderful degree by the action of the brain alone: we know the strength of an enraged person, of maniacs, and of persons in convulsions. The will governs the duration of the contraction: it cannot be carried beyoud a certain time, however it may vary in different individuals." A feeling of weariness takes place, not very great at first, but which goes on increasing until the muscle refuses contraction. To provent this inconvenience, the motions of the body are so calculated that the muscles act in succession, the duration of each being but short: our not being able to rest long in the same position is thus explained, as an attitude which causes the contraction of a small number of muscles, can be preserved but for a very short time. The feeling of fatigue occasioned by muscular contraction soon goes off, and, in a short time, the muscles recover the power of contracting. The quickness of the contractions are, to a certain degree, subject to cerebrai influence: we have a proof of this in our ordinary motions; but beyond this degree, it depends evidently on habit. In respect of the rapidity of motion, there is an immense difference between that of a man who touches a piano for the first time, and that which the same man produces after several years practice. There is, besides, a very great difference in persons, with regard to

according to the purpose to be served by their contraction: thus the heart confracts with a jerk; the urinary bladder, slowly and uniformly. The intensity of muscular contraction, that is, the degree of power with which the fibres draw themselves together, is regulated by the action of the brain: it is generally regulated by the will, according to certain limits, which are different in different individuals. A particular organization of the muscles is favorable to the intensity of their contraction: this organization is a considerable volume of fibres, strong, of a deep red, and striated transversely. The cerebral

Muses; goddesses of the liberal arts and sciences; originally, nymphs of inspiring fountains. Different accounts are given of their origin. There is, also, a great difference in their names and at-The most celebrated are the tributes. daughters of Jupiter and Muemosyne, also called Moneta, Memoria, and Mens. Their foster-mother was Eupheme. According to Homer, they lived upon Olympus. They originated in Pieria, in Thrace; from thence they came to Bucotia, and afterwards spread over the rest of Greece. The explanation of this probably is, that the art of singing was considered as having been first cultivated in the north of Greece. At first, three muses only were known: Melete (meditation), Mneme, or Archa (memory, for the immortalizing of great deeds), and Aoide (song, for the accompaniment of story); Cicero mentions a fourth, Thelxiole (De Natura Decrum, iii, 21). Finally, Pierus, a Macedo, nian, brought nine muses to Thespia, who were considered as his daughters, and hence, according to Pausanias, called Picridæ (Pierians). Others derive this name from Pieria, on Olympus, where they were first worshipped. Their names were Clio, Euterpe, Thalia, Melpomene, Terpsichore, Erato, Polyhymnia, Urania and Calliope. The poets feign that Jupiter spent nine nights with Mnemosyne, in. Pieria, and, in that period, begot the nine Muses. Immediately after their birth, they came, singing and dancing, to Olympus, where Jupiter exalted them to a divine rank. Not far from the top of Olympus is their palace, near that of the Graces, where they sing and dance. They are commonly represented as virgins, though children of the Muses are sometimes mentioned. Even Urania is called, by Eustathius, the mother of Linus. Among the adventures of the Muses, their three contests with the Sirens, the daughters of Pierus, and the old bard Thamyris, are

particularly famous. conquered: the muses plucked the feathers from their wings, and made garlands out of them for themselves, while the Sirens flew away, ashamed, in the shape of prating magpies. When the Muses contended with them in song, the heaven, the stars, the rivers and the sea stood still. and mount Helicon leaped for joy, and Neptune, to prevent it from mounting to the heavenly regions, despatched Pegasus, who struck his foot upon the summit of the mountain; at the song of the unfortunate Picrides, black darkness covered The bard Thamyris, who conthe fields. tended with them, stipulated that, should he come off victorious, each of them should yield to his embraces one night; but, should he be conquered, they might impose upon him whatever punishment they pleased. They were victorious; and, as a punishment for his audacity, deprived him of his eyes and of the art of playing upon the lyre. A certain tribe, says tradition, listened to the singing of the Muses with so much pleasure that they forgot their food, and, being on the point of perishing with hunger, were in compassion converted by the Muses into grasshoppers, who sing continually, without requiring (as it was believed) any nourishment. The customary occupation of the Muses was singing and dancing. The ancients knew nothing of the particular occupations which have, in later times, been attributed to each of their number. liope became the goddess of epic poetry. She was the most distinguished among the Muses, the protectress of kings, whom she endowed with eloquence and song. Clio was the goddess of history; Euterpe, of music, particularly of wind-instruments; Thalia, of comedy; Melpomene, of tragedy; Urania, of astronomy; Erato, · of lyric and erotic poetry; Polyhymnia, of eloquence and mimicry; and Terpsichore, of the dance. If we translate their names, Erato signifies the lovely; Calliope, the eloquent; Euterpe, the pleasing; Thalia, the joyous, particularly at feasts; Melpomene, the musical; Polyhymnia, variety of song; Terpsichore, the dance-loving; and Clio, fame. (See the separate articles.) Their surnames are, for the most part, derived from their places of residence,—Helicon, Pindus, Parnassus, and the sacred fountains there (hence Castalides, Pimpleides, &c.). They are commonly represented as beautiful virgins, adorned with wreaths of palm leaves, laurel, roses, or the feathers of the Sirens. They dance in a circle, together with

The Sirens were plucked the feathmid made garlands uselves, while the amed, in the shape When the Muses

When the Muses

The Romans originally called them Camena. In Rome, they had a separate temple, and a grove sacred to them. The swan, the nightingale and, the grasshopper were also sacred to them. They had a knowledge of pust ages, and were invoked, by poets, at the commencement of their lays.

Museum. Every collection of interesting objects, of nature or art, brought together for the instruction of the student, or the satisfaction of the curious, is called. a museum, a word which originally siguified a grotto of the Muses, or a temple of the Muses, and which was first given in the above sense to that part of the royal palace in Alexandria, which Ptolemy Philadelphus assigned for the library. Works of the fine arts, collected in museums: cannot produce the same effect as when in the places for which they were originally intended. When the images of Hercules, Hermes and Cupid, stood in the gytnnasia; when Alcamenes' statues of Venus were half hidden by bowers and . trees; when the figures of Diana, with her nymphs, were found in lonely forests; Myron's groups of the Nereides, on the sea-shore; the statues of Apollo, Bacchus, and the Mises, in the theatres; the lofty image of Jupiter, at the Olympian games; or, in more recent times, when the picture of the Virgin stood over the altar, surrounded by columns and arches, -then the works of art were in their proper places, and produced the effect for which the artist intended them. But a deluge of harbarism swept over the civilization of ancient times, and the works of ancient art were hurled from their When the light of civilization again dawned upon Europe, it was natural for men to seek with avidity for the relies of ancient art; and, as the changes which had taken place in religion and in social institutions forbade the restoration of them to their old uses, they were treasured up in collections, as proofs of the existence of a perfection which mankind had long lost. But this spirit of collecting may be carried, and has been carried, to an extreme. In the last century, particularly, the governments of many countries thought themselves authorized to despoil all the provinces of the few works of art which they had preserved, and to crowd them, often without any taste, in collections, into the capital. Of late, the mode of arranging museums has been greatly improved, the works of art being

disposed in situations corresponding to their character; at least, this has been the case with some museums of works of sculpture, of which the Glyptotheca (q. v.) and the new and grand museum at Berfirst collections of works of art in the peristyles of ancient temples. Delphi, with its treasure chambers, divided according to the different tribes of Greece; the temple of the Samian Juno and the Palladian Acropolis at Athens were very rich in works of art, consisting of consecrated gifts, arranged with taste. The successors of Alexander acctimulated all kinds of works of art in their royal seats, in order to carry them about at their triumphs in long processions. Similar was the fate of foreign works of art in ancient Rome. The captured statues were carried about like slaves; and among the Roman emperors there was more than one imitator of Nero, who ordered five hundred statues to be sent from Del-phi, to ornament his "golden house." The practice of removing works of art from their original localities had therefore already begun; 'real museums, however, existed not as yet. The barbarians afterwards broke in upon Rome, and the works of art were involved in indiscriminate destruction. The finest marbles. were used for building walls; the noblest statues were burned for lime. Hardly a single statue or picture escaped, except those which were buried under the rains, and thus preserved by the very extent of the surrounding destruction; to kindle, in future ages, a new love for the fine arts. In the beginning of the fifteenth century, only about five antique statues of marble, and one of bronze, were known to exist in Rome. In Florence began the dawn of a new day for the fine arts, in the age of the Medici. (q. v.) Cosmo I collected antiques, and laid the foundation of the famous Florentine museum. er princes of Italy soon followed the example. Pope Leo X, of the family of Medici, transplanted the love of the fine arts, which distinguished his house, to Rome. 'The villa of the Medici, on Monte Pincio, became the place in which antique works of art, which had been hidden where destruction had not been able to reach them, were concentred. The noble families of Rome, and, by degrees, of all Italy; were inspired with a kindred zeal, and every where commenced excavations, in order to find ornaments for their villas and palaces. Collections of coins were first made. The family of

Este made the first collection of gems. Afterwards came collections of busts; yet these, as well as statues, were used in preference as ornaments in festival halls. in gardens and yards (cortili), instances lin are honorable examples. We find the . of which are the cortile in the Belvedere, and the villas in and near Rome. arrangement of the antiques in the nine stanzas of the Villa Borghese was beautiful. This, we regret to say, could not be reëstablished when the other works of art returned to Italy, for these antiques were bought by France, and not carried Museums now became off by force. more and more common, and works were crowded together without taste and convenience. As the erudition of the Alexandrian scholiasts, though valuable, is not of equal worth with the poetry of Homer, so museums, though certainly noble establishments, and necessary to keep alive a taste for the fine arts, are not to be compared with the living activity of art; and it is gratifying to see that the effect of museums at present is to awaken genius to original production, instead of making mere copyists of ancient creations, as was once the case, when modern art seemed to be rather a matter of erudition than the offspring of native inspiratiou. The most famous museum in Italy is the museum in the Vatican, which occupies almost all the rooms of that immense palace, and includes pictures, statues, relievi, books and manuscripts. The stanze and loggie contain the famous fresco pictures of Raphael. In the cortile are the Apollo and Laocoon, with many other of the noblest productions in which man ever expressed his love for the beautiful. Raphael's Transfiguration, his Madonna di Foligno, and most of the celebrated pictures which had been carried to Park, were placed here after their return.—See the article Valican; also the work entitled Museo Pio-Clementino, and the continuation of it, Il Museo Chiaramonti, with illustrations by Visconti and Guattani, edited by Ant. d'Este and Gaspare Capparone (Rome, 1808, fol.). The museum at Florence (q. v.) is next in rank after the Vatican. Its greatest ornaments are the Medicean Venus and the Farnesian Hercules. The museum in Paris, at the time when all the greatest treasures of the arts of almost all ages and all countries were accumulated there, was the richest in the world. It is even now exceedingly rich. The superb Diana, the true sister of the divine Apollo Belvedere, the majestic Pallas of Velletri, and the colossal tragic muse, are its greatest or-,

naments. As in France galleries of pictures also are understood by the name musée, we must mention here the magnificent gallery of the Louvre, the greatest treasures of which, at present, are the pictures of Raphael and Leonardo, pur-chased by Francis I, the works of Poussin, Lebrun, Lesucur, and the pictures of the former gallery of Luxemburg, by Rubens.—See count Clarac's Musée de Sculpture antique et moderne (Paris, 1826, with engravings.)-Besides these, there is the musée des monuments Français, established by Lenoir, in 1796, with the permission of the national conveption. It was begun in 1790, and opened to the public in 1791, at a time when the fury of the people, excited by existing abuses, attacked indiscriminately all monuments of the previous order of things. It was composed of seven great saloons, chronologically disposed, so that the works of each period stood by themselves. A garden attached to the museum contained those monuments which were too large for the rooms. It 1816, this museum was broken up, and the monuments restored to their former situations. M. Molard established the conservatoire des arts et méliers, containing a very full collection of machines, &c. The Jardin du Roi contains the musée' d'histoire naturelle, which owes so much to Buffon. England, the Oxford museum is the old-It was founded in 1679, and owes a great part of its treasures to Elias Ashmole, whose name it bears. The British museum, in London, is continually in-creasing by means of donations and pur-Sir Richard Cotton (q. v.) laid the foundation of it by his valuable collection of manuscripts. Since that time, the government has frequently made additions to it by purchase. (See British Museum.) No country has more museums than Germany. In Dresden are the collection of antiques, called the Augusteum, the greatest ornaments of which are the three female figures of Herculaneum, the gallery of pictures, with Raphacl's great master-piece, the Madonna di Sisto, and Correggio's Night, and the museum of casts in gypsum, collected by Mengs. (See Dresden.) Munich has the Glyplotheca (q. v.); and a similar building has lately been erected for the reception of pictures, the collection of which is considerable. Guido's Ascension of the Virgin is 'the most distinguished of them, and the Dusseldorf collection, and that of the brothers Boisserée, have greatly ennanced their value. Still larger and finer is the

new museum at Berlin, lately finished, and containing works of sculpture, pictures, coins, gems, Egyptian monuments, &c. The building itself, with its fresco paintings, is a splendid work of art. the other cities of Prussia, museums are likewise crecting. Darmstadt, Gotha, Cassel, Brunswick, Dessau, Vienna, &c., con tain museums more or less distinguished. Llorente has communicated some information on the collections in Spain. That country has been too much agitated, of late, to bestow much attention on the fine arts, or collections of works of art. In Turin, an Egyptian museum, opened in 1824, contains Egyptian antiquities, obtained by Drovetti. Amad. Peyrou published the Papyri Graci Musei Taurinensis. Milan has been growing richer every day in coins. In Brescia, a museum of antiquities was established in 1827, shortly after a temple, with many statues, The museo Borbohad been *xcavated. nico, at Naples, is increased by the treasures found in the subterranean cities. The most important treasures of this museum are made known to the public at large by Niccolini's Real Museo Borbonico, published since 1824, in numbers. will form sixteen volumes, and a catalogue of two volumes will contain the less important works. Niccolini gives, at the same time, information respecting the history of the exeavations in Pompeii. -Respecting St. Petersburg, see Wand's Description (Weimar, 1827, 1 vol.), and Miliotti, on the gems of that capital, Vienna, 1807). Several private collections at Petersburg, and in other places of the Russian empire, are not unimportant. Copenhagen has valuable collections, affording interesting illustrations of northern antiquities. (See Copenhagen.) The Greek government, some time since, issued a decree, commanding all antiquities found in the interior to be brought to the national museum, in order to preserve them from future destruction, and also to prevent their exportation.* (For the collection of Etruscan vases by Lucien Bonaparte, see his article.

MUSHROOM. (See Fungi.)
MUSIC. The Greeks understood by
music (μουσικη), the (so called) arts of the
Muses, particularly music in the modern

^{*} It already consists of 1090 painted vases (of various forms and descriptions), 108 lamps, and 24 smaller statues of terra-cotta, 16 small earthen vessels, 19 glass vases, 31 alabaster vases, 137 copper utensits (comprising pateræ, and other sacrificial vessels), 71 stone tablets (with inscriptions), 24 statues, 14 bass-reliefs, 53 fragments of sculpture, and 339 coins and medals.

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sense of the word, and poetry and eloquence. Plate contradistinguishes it from gymnustics. The dyers processes (musical contests) took place in all the above arts. At a later period, the words music and musical were restricted to that art alone which strives to affect the soul by tones. We shall form a more just idea of this art if we search for its origin in our nature. We see it, as it were, daily originating, or, at least, we daily perceive in common life the germs from which it grew up. Nature seems to have established an intimate connexion between the cmotions and the sense of hearing. Of the two nobler senses, sight and hearing, the first seems to belong more particularly to the understanding; we owe to the eye, and to abstractions from the images which it presents, most of our general notions and ideas, while the car appears to be more intimately connected with the feelings. Feeling expresses itself most readily in Fear, joy, desire, anger, have each a peculiar tone, understood by all human beings. Man soon perceives this, and often prolongs these tones, in order to continue or heighten a certain feeling or excitement; hence the repetition of the war-cry, in the combats of rude tribes, or of the tones of mirth at their festivities. The love of excitement, moreover, soon leads to the production of these tones, even on occasions when the feeling from which they first originated does not exist: thus we find the natural tones of joy repeated, in order to effect that of which they were originally the effect,—a pleasant feeling, a contented state of the soul. This, it is true, is not yet music or song, but the first germ of it. Another element of music, springing from a feeling deeply planted in the human heart, and perceptible in children and savages, as well as in the most refined and accomplished, soon associates itself with tones; we mean Whatever may be its origin, rhythm. whether it was first used to relieve the fatigue of a march, or to give connexion to a series of tones, or to enable numbers to join in the utterance of the same tones, or whether it is to be referred mainly to the spirit of classification and love of order, which is so universally operative,certain it is that the love of rhythm is one of the most general principles of the kunan soul: it pervades all tribes, all ages, all classes. It alleviates labor, and cheers the heart. A simple division of tones soon gave rise to a more artificial one, and man soon perceived that he might utter two short tones, and make

two short stebs, in the same time as one long tone or one long step. Man does this long before he reflects on it: witness the regular strokes of the smith's hammer, or the thresher's flail, and the dances of the rudest nations: thus we have the two essential elements of song-tones and rhythm. As precise divisions in sciences or arts, or any of the departments of human action, grow up slowly, and kindred branches are at first usually mingled, it is highly probable that dancing and musictwo arts founded on measured time-- ' were at first intimately connected, as we find still to be the case among most, perlmps all, tribes, in a state of infancy. By degrees, the song was separated from the dance, and instruments which originally only served to accompany the song, became also the object of a separate art. Tones by themselves, apart from dance or words, were cultivated; the laws according to which they must be connected, so as best to express the language of feeling, were more and more investigated, the application of these laws further and further extended, until music was developed to that degree of perfection which we admire in the works of the greatest posters. Every musical production, to deserve the name, must be expressive of feelings, and, through them, of ideas; but though music exists wherever the human species is found, it does not follow that every good piece of music must please all men alike, or be understood by all alike, because music is an art requiring cultivation of the mind and heart, to appreciate it fully; still, however, music, even of the most elevated kind, retains so much of its character of universality, that the productions of the greatest masters delight much more generally than the best performances in other arts. Witness, for instance, certain tunes of Mozart, or other great composers, which are repeated on all occasions, so that they not unfrequently become tedious from this cause. Hunter's Chorus in the Freischütz may be heard throughout Europe and Amer-The reason is, that music addresses the feelings, and feeling is alike all over the world. In this point of universality, music and mathematics (incongruous as the association may seem) agree; the relations of numbers and magnitudes, with which mathematics has to deal, being every where the same, and the simple feelings of the heart which music addresses being common to every region. Insensibility to music may generally be referred to a defective organization in the

sense of hearing; but the whole conformation of some men is probably much better fitted than that of others to enable them to receive pleasure from it. In this respect, too, music and mathematics seem to have a resemblance, that great excellence in either seems to require a marked peculiarity in the nature of the individual. Music is based on melody (q. v.), rhythm (q. v.) and harmony. (q. v.) The effects of music are sometimes said to be merely sensual. It is addressed to the ear, indeed; but all the influences which we receive from without, are conveyed through the medium of the senses, and the tones of music often speak a language to the soul richer in meaning than any words. It will hardly be pretended that feelings which cannot be expressed in words, are necessarily of a lower character than those which may be so express-The most elevated feelings are beyond the power of even metaphorical Nothing is merely sensual language. which makes a lasting spiritual impression upon the soul; and he who denies to music such a power, has not heard its sublimest strains, or has not the capacity to appreciate them. In music, we have to distinguish the invention called composition and the execution. As to the latter, it may be vocal or instrumental; and as to the purposes for which music is intended, we have church or sacred music, theatrical music, concert, dancing, &c., music. Music, considered on its technical side, * rests on mathematics and acoustics. Since Euler, it has been understood that masic ought to be treated under a mathematical point of view. It operates, in space and time, in such a way as to be susceptible of mathematical measurement. Tones, considered simply as to their duration, are magnitudes of time, which stand in a descending geometrical progression, the exponent of which is $2: 1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{1}{10}, \frac{1}{32}, &c.$ The time is expressible in fractions $(\frac{1}{4}, \frac{3}{4}, \frac{3}{4}, \frac{5}{4}, \frac{5}{8})$ time), which indicate in numbers how many parts of the unit of time () are contained in each bar. In space, tones can be considered as magnitudes of sound, and their distances from each other in the scale are expressed in numbers, which have reference to a mathematical division of the space between two sounds, adopted as limits (the octave, the third, seventh, &c.). Similar proportions exist between the various voices, the treble, bass, &c., and between the various keys. In instrumental music, the depth and height of the tones depend upon the proportions of the thickness, length and

lightness of the chords, the quality, diameter and distance of the openings in wind-instruments, and the like; and all these proportions can be determined and measured according to mathematical rules. This regularity may perhaps afford the reason why the effects of music are so general, and its influence on the nerves so powerful. The 'same circumstance renders it incapable of expressing those fine shades of feeling which can be communicated only by the aid of reflection.

Music, History of. In the preceding part of this article, we have given our views respecting the origin of this art. It seems to us a very poor idea to consider it as having begun with the imitation of birds or other animals, or of any of the ordinary sounds of nature; while the natural expression of emotions by sounds would easily lead to a repetition of these sounds, the consequence of which would be music. We do not deny that when once the disposition for music, or at least for the utterance of a series of tones, was awakened, the sounds of surrounding nature may have had an influence upon man, and excited him to try to form a 'variety of tones with his voice. ever we find music, even in its rudest beginnings, we find also instruments; so that, as far as respects the known history of this art, we must consider the developement of vocal and instrumental music , as coeval. Perhaps the first instrument invented was the pipe of the shepherd, who, in his life of leisure, heard the wind whistle among the reeds. It seems probable that shepherds first cultivated music as an art, while warriors may have made use of the exciting war-cry and war-song before. Instruments, as was observed above, served, in the beginning, only as an accompaniment. According to the Mosaic records, Jubal, the son of Lamech, played on musical instruments, even before the deluge. At a later period, we find among the Hebrews, as is the case in the early periods of all nations, the character of poet and singer united in the same individual, and with them we also find the alternating chorus. The musical instruments which accompanied these songs were harps, eitherns, trumpets and drums. ' One of the oldest songs, with instrumental accompaniments, is that which Miriam (sister of Moses) sung, after the passage of the Red sea. At the time of David and Solomon, music had reached its highest perfection among the Hebrews, and part of their religious service consisted in chanting solemn psalms, with in-

strumental accompaniment. As well as we can judge, from the information handed down to us, and even from the structure of Hebrew poetry itself, of which a certain parallelism or repetition of the main idea in the different members of a sentence was the chief characteristic, it had a very distinct rhythm, a varied melody, but a monotonous, though strong accompaniment, as was the case with the music of most ancient nations. They had also proper musical signs, which were put over the musical text, and which served to guide the recitation. (See George Ventzky's Thoughts on the Notes, or Musical Signs, of the ancient Hebrews, in Mitzler's Musical Library, 3d vol., in German ; and Anton's Essay towards deciphering the Melodies of the ancient Hebrew Songs, in Paulus's New Repertory for Biblical and Oriental Literature, 1st and 2d vol., in German.) Their music, however, was employed not only in the celebration of religious service, in which, particularly since the time of David, a great number of singers, male and female, and instru- . mental performers, were employed, but also at profane festivals, such as large entertainments. At this time, the different kinds of instruments were increased, among which the kinner (triangular harp), and the cymbal, are mentioned partieularly. (See Herder, On the Spirit of Hebrew Poetry. 2d vol.; Pfeiffer, On the Music of the ancient Hebrews, Erlangen, 1779, in German.) Pauw (in his Recherches, vol. i, p. 244) has gone too far in asserting that the Egyptians are not known to have had either music or poetry. The tradition that Thout or Thot (the genius of science and art, according to Creuzer) invented music, proves, indeed, no hing i but, in the tomb of Osymandyas, near Thebes, musical instruments have been found, and it has been concluded that the Egyptians must have been acquainted with music 2000 years B. C. That the Hebrews received the art from them would not, however, be proved by that circum-. stance, though it may be, for various reasons, probable. We pass over the mythological accounts respecting the origin and perfection of the art of music among the Greeks. The traditions indicate that they received this art, or, at least, great improvements in the execution of it, from Lydia, where Amphion is said to have learned music, and Arcadia, where the shepherds practised on the pipe, flute and cithern. From the provinces of Asia Minor, the different modes (q. v.) of Greek music-the Phrygian, Dorian,

Lydian, Æolian and Ionian-are derived. Their song, as it would appear from what we can gather from the ancient authors, consisted in a musical recitation. accompanied by one or more instruments to support the rhythm. From the sixth century B. C., music seems to have been studied scientifically, and particularly the tones were measured. Lasus of Hermione, in the Peloponnesus, who lived about 546 B.C., and was the teacher of Pindar. is said to have written something on the theory of music. Pythagoras (q. v.), who is said to have learned music from the Egyptian priests (which, however, is considered improbable), occupied himself with the mathematical relations of tones. The instrument which he invented for the mathematical determination of sounds was called the Pythagorean canon. He is also said to have added the eighth chord to the harp, to which several others were afterwards added. Damon is mentioned as one of the most distinguished teachers of music in the times of Pericles and Socrates. Plato asserted that his music could not be changed without changing the constitution of the state itself. Plato and Aristotle considered music useful as a means of education. In their time, the scale was considerably increased; but, at the same time, complaints arose against the degeneracy of music and of the national manners through its influence. similar complaint was made against Phrygius, who lived in the time of Socrates. Probably the cause of it wer the application of music to the expression of the more tender feelings, as love, &c., while it had been previously used chiefly to awaken patriotic or religious feeling, as with the Lacedemonians. The division into theoretical and practical music was probably known even then. Theoretical music comprised as well the arithmetical calculations respecting the proportions of sound and tones, as the doctrine of harmony, which teaches the general rules of all the various concords. Composition and song depended upon this branch. The latter, and thus music in general, was divided, according to the proportions of the tones required in the different sorts of music, into the diatonic, enharmonic, and, at a later period, the chromatic. In regard to the tones, which were the basis of the compositions, certain modes (q. v.) were adopted, denominated, as has been already stated, from the countries whence they chiefly came. Music was divided, also, in respect of composition, into, 1. melpaia (the art of composing the song.

that is, the art of giving to poetry the proper song, or mode of recitation, because the recitation, or declamation, was also indicated by notes); 2. into rhythmonoria. (the art of giving a proper rhythm to the motion of the body or the voice); and, 3, into poetics) the technical part of poetry. connected intimately with music in those times); to this belonged metrics. As to execution, music was divided into organic (instrumental music), aodic (vocal music), and hypocritic (pantomimic action in connexion with music). At the time of Alexander the Great, Aristoxenus, a pupil of Xenophilus and Aristotle, distinguished himself. He wrote a great number of treatises on music, of which three are still extant, and extended the scale to eighteen chords, which were divided according to tetrachords and pentachords. His pupils (called the Aristoxonians) rejected the strict proportions of Pythagoras, and made use of the intervals of whole and half tones, guided merely by feeling. Aristoxenus also introduced the chromatic music, the invention of which belongs to this time, instead of the enharmonic. Euclid (277 B. C.) is the first writer who treated the mathematical doctrine of With the decline of liberty, musounds. sic also sunk, like the other arts. But the inference drawn from the perfection of the other fine arts among the Greeks, that music had attained a corresponding advancement, is very problematical, and is not confirmed by the information which has been handed down to us. It rather appears that Greek music was not possessed of harmony in its whole fullness, and of that splendor and variety which the art attained after the perfection of instrumental music. The many stories of the miraculous effects of music prove nothing. Very simple and poor music may be considered as excellent by a nation which knows of none better: witness the glowing description of beautiful music in the tales of the East, notwithstanding the low state of the art in that quarter of the globe. The Greek song seems to have been a rhythmical recitation, with a simple accompaniment, in which the tones had less a musical that rhetorical dura-The many investigations of the moderns respecting the music of the ancients give us, on the whole, but little light on the subject, and the existing writings of the ancients themselves are, in a great degree, unintelligible, on account of the many contradictions and obscurities in them.-See the collection of the ancient musical writers by Meibom-Anti-

quæ Musicæ Scriptores (7 vols., Amsterdam, 1654, 4to.), and Claud. Ptolemens,--Of late, Münch and Von Drieberg have written on the music of the ancients. Chladni (q. v.), however, has opposed their conclusions in many particulars, in the Musical Gazette of Leipsic. Bartholin has written on the wind-instruments of the ancients (De Tibiis Veterion). The Romans seem to have received the music which they used at sacrifices, together with the religious service, from the Etruscans, but the instrumental music, used on the stage and in war, from the Greeks. Stringed instruments are said to have been introduced into Rome as late as 186 B.C. In general, the Romans, so warlike in their disposition, most cultivated martial music. At an early period of their history, it was a great hinderance to the progress of the art that it was practised only by slaves. With the Romans, canere and carmen signified the musical recitation, which was accompanied by instruments, and which seems to have stood in the same relation to rhetorical recitation as the poetic rhythmus to the numeras of prose; to which we must add, however, that orators had the intonation given by instruments at the beginning of their speech and during the same. The Romans made use of their capital letters as notes. On the stage, the song was accompanied with flutes. The song was accompanied with flutes. instruments first preluded, then the actor began; and, probably, the instrumental accompaniment continued in simple concords, or made short pauses, and supported or heightened the emphatic expression by recommencing. The choruses seem to have been accompanied differently from the monologue and dialogue. This accompaniment consisted of flutes and other wind-instruments, comprised with the Romans under the name of tibia; sometimes, also, of the lyre and eithern. The flutes were different, according to the comic or tragic poem which they had to accompany: hence there were tibia dextra and sinistra, the former particularly intended for the serious, the latter for the comic, passages, and for comedies, Horace, in his Epistola ad Pisones, says that, formerly, only simple wind-instruments, with a few holes, had been used; no flutes which vied with the trumpets (tuba). Rhythm and melody, he says, had become less strict. At later periods, still louder complaints were raised against the noise of the instruments, which obliged the actor to raise his voice extremely. In all this, the Greeks had preceded the Romans. Under the four emperors, particularly Nero, music was cultivated as an object of luxury. After his death, 500 singers and musicians are said to have been dismissed. (For the way in which sacred music grew up among the first Christians, see the articles Music, Saered; also Italian Music, in the article Italy, vol. vii, p. 134.) The solemn church song or hymn, which was first sung in one voice only, or in octaves, is the basis of modern music. It was sung without rhythm or time (in canto fermo). A later invention is the figured music, which, according to some, existed even in the seventh century, in the Roman church; according to others, was invented by the English monk Dunstan (who died 988). The progress of music was promoted, in the middle ages, by its being consecrated to the service of religion, and belonging to the quadrivium, the four branches of a learned education,—arithmetic, geometry, astronomy and masic. Several investigations into the nature of music were made, which are found in Mart. Gerbert's Scriptores ecclesiastici de Musica sacra.—See, also, Forkel's General Literature of Music (in German, Leipsic, 1792).—Guido of Arezzo (whose works on music are also to be found in the collection just mentioned) contributed greatly to the improve-ment of music. The correction and extension of the system of tones, the division of tones into hexachords, the improvement in the manner of writing the notes, by the introduction of the system of lines, the invention of the solmization (q. v.), and of counterpoint, are generally ascribed to him. Johannes de Muris is said to have improved the mode of writing notes in the fourteenth century, and also the figured music. Franco of Cologne, in the eleventh century, is mentioned as the inventor of the musical time-table, and as the first approved writer on measured music, on which the invention of counterpoint and the fugue depended. In the fifteenth century, music was treated scientifically in the Netherlands, France and The organ (q. v.) contributed much to the development of harmony. The Flemish school, to which belongs, rmong others, Orlando Lasso (q. v.), preceded Palästrina, generally called the founder of modern church music. From the sixteenth and seventeenth centuries, there grew up at the courts of monarchs the free chamber style, and, from this, the theatrical style. The invention of the opera, in the sixteenth century, has chiefly contributed to the splendor and variety of

modern vocal music, and the astonishing improvement of the most various instruments greatly advanced instrumental music, and, at the same time, harmony, in the latter half of the eighteenth century. (See the history of music in the articles of the various countries.) The merit of the advancement of vocal music is claimed particularly by the Italians; the improvement of instrumental music, by As to the the Germans and French. modern mathematical systems of music, Huygens, Saveur (about 1701), Rameau (about 1722), and Euler (Mathematical Inquiries respecting Music), deserve to be mentioned as inventors. The history of music has been treated fully by Giamb. Martini (Storia della Musica, Bologna, 1757 et seq.), by Marpurg (Kritische Einleitung in die Geschichte und Grundsätze der allen und neuern Musik, Berlin, 1759), by Burney (q. v.), from whose great work that of Bushy (London, 1820, 2 vols.) was compiled, by Hawkins, and by J. N. Forkel (Allgemeine Geschichte der Musik, 2 vols., 4to., not finished). Von Hammer gives contributions to the history of Oriental music, from the Persian, in his Fundgruben des Orients (4th vol.); see, also, Paux's Recherches; and, for the music of Egypt and Abyssinia, a letter by Bruce, in Burney's General History of Music.

Music, Sacred. Almost all nations who have an established religious service have made music an important part of it; and, in a general sense, we might give the name of sacred music to all music employed in religious festivals, even befo**re** the Christian erg as that of the Egyptians, Hebrews, Greeks and Romans, as well as to the religious songs of the bards and scalds. The early Christians, who were led by various passages in their sacred writings to employ religious songs, introduced at their religious meetings, particularly in the Eastern churches, the singing of the psalms and hymns, which are to be found in the books of the Old Testament, and to which the Jewish converts had been already accustomed in their assemblies. They sang, also, at the Lord's supper and at the agapes. At the synod of Laodicea (361), regular songs were introduced, which were sung from notes by persons appointed for this purpose. The Western churches received, through Ambrosius (q. v.), bishop of Milan, a regular church music, similar to the Eastern. Probably this possessed a regular modulation and rhythm, only that both were defective through the imperfection of the music at that time; and the latter appears to have

been limited to long and short tones: the first was founded upon the Grecian modes remaining in Italy, and was very poor. Perhaps many of the melodies of Grecian and Roman hymns now received words adapted to the religious worship of the Christians. The Christian fathers bear witness to the use of songs in the Christian communities in the first century, and many of them, as Ambrosius and Augustine, were great admirers of them. In regard to the manner of singing in the first assemblies, it was sometimes in solo, sometimes alternately, and sometimes there was a chorus of the whole assembly, who united in repeating short passages, before sung or read, from which, probably, the female sex was at first excluded. For the regular ordering of the singing, precentors were instituted in the fourth century, who were considered as interior officers of the church. Schools appropriated to singing were instituted later, and only in a few places. Pope Gregory the Great (590—604) distinguished himself in the Roman church as the founder of a new singing school, in which boys were instructed. It was the model of many other institutions of this kind. In consequence of this education of persons for singers, the singing was not only more artificial, but the people were also, for the most part, excluded, particularly as the hymns were in Latin. Gregory collected in his Antiphonarium the existing songs of the church, which he selected from the best ancient melodies, improved and increased by the addition of new The Gregorian Chant, so called after him, was sung in unison with loud notes of similar value, without rhythm and metre (by which it is particularly distinguished from the Ambrosian), or in the old Grecian modes, but with a more complex modedation. This Gregorian or plain chant, which, by means of Gregory and his successors, has been extended throughout the West, is the foundation of the Christian church music. It was also called choral song, because it was sung by a choir. The Gregorian Chant was first carried into England and France. Charlemagne, who labored particularly for its diffusion, caused several singing schools to be established in France, and united them with the monasteries. The Gregorian Chant was probably introduced into Germany by Boniface, but it was first generally diffused there in the time of Charlemagne. The developement of the music for four voices may have been assisted by the choral; but musical instru-

ments contributed yet more thereto, as well as to the formation of perfect harmony; among these, the organ (q. v.) particularly, which soon took the first rank in the churches. Now figured music arose, and likewise figured song (cantus figuralus), which, in the fifteenth century, began to become general, as the custom grew up of varying, extending and embellishing the accompanying voices of a melody, while the chief voice, upon which the fundamental melody depended, remained unchanged (bence it was called cantus firmus, canto fermo, plain-chant); but, still, the chief voice often became the under voice. This happened afterwards, also, with melody. The invention of measured music caused the choral to be performed in a more regular measure, and gave greater extent to harmony. Choirs of singers now became necessary, and singing was often applied, especially in Italy, to heighten the splendor of religious worship. (See Italian Music.) The organ was continually improved, after the fifteenth century, and other instruments. also, were introduced into the church. against which complaints were often made, as well as against the new figured music in general, which found occuliar support in the instrumental music. Yet these complaints were chiefly directed against the abuse of the figured and instrumental music, and they were not able to banish them from the church. The fifteenth and sixteenth centuries form a new period of church music, which was extended by the great masters in Italy, France, the Netherlands and Germany. Luther's services to the German church music are well known, for which he labored, by means of his friend Senffel. During the seventeenth and eighteenth centuries, church music became continually more brilliant, and always more corrupted by the intermixture of profane music. In the Roman Catholic church, the sacred music is confined to fixed forms of text; for instance, the text of the mass, the Offertoria, Te Deum, Salve, Requiem, Psalms. In the Protestant church, poets and composers allow themselves new forms.—The greatest modern composers of sacred music are Palästrina, Allegri, Durante, Morales, Lolli, Scarlatti, Lasso, Caldera, Leo, Pergolesi, Handel, Bach, Graun, Hasse, Jonnelli, Stölzl, Kerl, Rolle, Naumann, Schulz, Kunzen, Wolf, Mich. and Jos. Haydn, Mozart, Vogler, Cherubini. Music of the Spheres. (See Har-

mony of the Spheres.)
Musk (moschus). The musk tribe have

no horns. In the lower jaw they have eight incisors, and, in the upper, two long tusks, one on each side, projecting some distance from the mouth. They are some distance from the mouth. celebrated from one of the species affording an odoriferous substance, which has long been used in perfumery and medi-This substance was long known, before any authentic information could be obtained respecting the circumstances, form and manners of the animals that produced it. The principal species is the Thibet musk (M. moschiferus), which is about two to three feet high. Its upper jaw is considerably longer than the lower. Its tusks are nearly two inches long, and project considerably. Its ears are long and narrow. The hair of the body is long, and stands creet; each hair is marked, from tip to root, with waves; the color, at the lowe. part, is einercous; in the middle, black; and at the tip, ferruginous. The hoofs are black, and deeply cleft. The tail is very The male is furnished with a small bag, nearly of the size of a hen's egg, in which is contained the musk. This hangs from the abdomen. A full grown male will yield a drachm and a half, and an old one two drachms. The bag is furnished with two small orifices, the one naked, and the other covered with hairs. The hunters cut off the bag, and tie it up for sale, but often adulterate its contents by mixing other matters with them. It has been asserted, that when the musk bag is first opened, it has a very powerful effect on the membrane of the nose, sometimes even to such a degree as to cause a flow of blood. This animal is a native of many parts of Asia, and particularly of the kingdom of Thibet. As it is naturally timid, it lives on the cliffs and summits of lofty mountains. In running, leaping and climbing, it displays astonishing agility. Few animals lead the hunter into greater dangers, or require more address and activity in the chase. But the value of the musk induces the pursuer to brave every danger. In the autumn, however, they assemble in herds, to migrate to a more genial climate: at this time they are taken, The other or shot, in great numbers. species do not furnish any musk. These are the memimna (M. memimna), a native of Java and Ceylon. It is diminutive, being not more than a foot and a half long. The Java musk (M. Javanicus) is also small (about the size of a rabbit), with remarkably slender legs. But the most beautiful species is the Guinea musk (M. pygmæus), which, notwithstanding its name, is more common in India and the

Oriental islands than in Guinea. This graceful and diminutive creature is only about nine inches in length, with slender limbs, and smooth, shining hair. The Malays capture them in great numbers, and carry them about in cages for sale. The American musk (M. Americanus) is only the young, or the female of one of the species of South American deer; and the M. delicatulus of Shaw is the fawn of the American stag.

MUSKETOON; a short thick musket, whose bore is the thirty-eighth part of its length; it carries five ounces of iron, or seven and a half of lead, with an equal

quantity of powder.

MUSKINGUM; a river of Ohio, which is formed by the junction of White-woman's river and the Tuscarawas, which unite at Coshocton. After the junction, it has a course of 100 miles, and flows into the Ohio, at Marietta. It is navigable for boats and battenux to Coshocton, and for smaller craft, still farther. There are falls of seven feet at Zanesville, around which there is a canal. The Ohio canal forms an easy communication between the towns on this river and lake Erie.

Musk Ox (ovibos moschatus). animal, which Mr. Blainville has considered as intermediate between the sheep and ox, inhabits the barren country in America, to the northward of 60° of latitude. This district is mostly rocky, and destitute of wood, except on the banks of the larger streams. Their food is similar to that of the moose-grass at one season, and lichens at another. When they are fat, their flesh is well tasted; that of the bulls, and even of the cows, when lean, smells strongly of musk. Notwithstanding the shortness of their legs, they run fast, and can climb hills and rocks with great case. They assemble in herds of from twenty to thirty. The female brings forth one calf in May or June. Doctor Richardson states, if the hunters keep themselves concealed when they fire upon one of the herds, the poor animals mistake the noise for thunder, and form themselves into a group, crowding closer and closer as their companions fall; but should they discover their enemies, either by sight or by their sense of smell, which is very acute, they seek for safety by instant flight. The bulls are, however, irascible, and will often attack the hunter, and endanger his life, particularly when they are wounded. The musk ox is about the size of a small domestic ox. Their horns are very broad at base, covering the forehead and crown of the head; they curve downwards between the eve and car, until about the level of the mouth, when they turn upwards. The head is large and broad, and the nose very obtuse. The ears are short, and not very conspicuous. The general color of the hair of the body is brown. On the neck and between the shoulders, it is long, matted, and somewhat curled: this bushy state of the hair on those parts, causes the animal to appear humped. The hair on the back and hips is also long, but lies even and smooth. On the shoulders, sides and thighs, it is so long as to hang down below the middle of the leg. On the centre of the back it has a soiled, brownishwhite mark, termed, by captain Parry, the saddle. The tail is so short as to be concealed in the fur. There is a large quantity of fine, brownish, ash-colored wool or down among the hair. This is so fine and soft as to resemble silk, and would be highly useful in the arts, if it could be procured in sufficient quantity. The legs are short and thick, and furnished with narrow hoofs, resembling those of the moose. The female, which is smaller than the male, has also smaller horns, whose bases do not touch. The first account of this animal was given by M. Jeremie, in his travels in the northern part of America, after which it was noticed by every subsequent voyager. Pennant, however, was the first who systematicelly arranged and described it, from the skin of a female sent to England by Hearne. As is observed by doctor Richardson, it is remarkable, among the Americau animals, for never having had more than one specific appellation, whilst other animals, of less interest, have been honored with a long list of synonyms. (See Richardson's Faun. Im. Bor. from which the foregoing account has been principally derived.)

Mesk Rat (fiber). This well known animal, which is so closely allied in form and manners to the beaver, has a thick and blunt nose, and short ears, which are almost concealed in its fur. The color of its body is reddish-brown; the belly and breast are of an ash-color, slightly mixed with a ferruginous tint. The hair is soft and glossy, and beneath it is a thick coat, which is much used in the manufacture of hats. On the hinder feet, instead of the web connecting the toes, as in the beaver, there is a stiff fringe of hair, which is closely set, and projects from the sides; the front toes are free and unconnected. The tail is thin at the edges, and compressed, covered with small scales, with a few scattered hairs, is about nine

inches long, or nearly that of the body, which is twelve. The flesh is not catable from the strong odor of musk which pervades it. The musk rat is exceedingly common in most parts of the U. States, particularly in the Northern. In Carolina, Georgia, &c., Bartram states that it is never found within one hundred miles of the sea coast. These animals reside along small streams, mill races, and ponds, apparently forming their habitations according to the nature of the locality. Where the banks have some elevation, they form large and extensive burrows, which have entrances below the surface of the water, and gradually ascend till they terminate in a chamber above the level of high water. These burrows are most frequently made under the roots of trees, or in other situations of difficult access. These excavations are of great injury to artificial embankments along most of our rivers, by permitting the water to undermine, and to make large breaches in them. When, however, these animals inhabit low and marshy situations, they construct houses not very unlike those of the beaver, composed of reeds, &c., mixed with clay. These houses have several subterraneous passages leading to them, and are inhabited by many individuals during the winter; but in the warm weather, they desert them entirely, and dwell in pairs, whilst they rear their young, of which they have from three to six at a litter. The houses are constructed in the marsh or swamp, but not in the stream or pond, and a new one crected every season. Hearne says, that the tops of these houses are favorite breeding places for the geese, which bring forth their young there, without the fear of being molested by foxes, or any other destructive animal, except the eagle. also states, that, on Hudson's bay, instead of making their houses on the banks of the water, they build them on the ice, always taking care to leave a hole open, to permit them to dive for their food. When the weather is so severe as to freeze these holes, and they suffer from hunger, there is strong reason to believe, that they prey on each other. Their usual food is the roots, &c. of aquatic plants, particularly the calamus: they also destroy immense quantities of the different species of fresh water muscles (unio), the shells of which are always to be seen about the entrance of their burrows. They will also feed on fruit, and one of the common baits used in traps for them. is an apple. They swim remarkably well. and are capable of remaining under water

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for a considerable time. They usually come forth in the night, generally remaining in the burrows during the day time. Among the traders to the north, they are known under the name of musquash.

Musschenbroek, Peter van, a celebrated natural philosopher, born at Leyden, in 1692, studied in the university of that city. and entered upon the practice of medicine. Similarity of scientific tastes united him (1717) in a close intimacy with the celebrated S'Grayesande, with whom he pursued his studies in natural philosophy. After practising his profession four years, Musschenbrock was appointed (1719) professor of philosophy and mathematics, and extraordinary professor of medicine at Duisburg, and soon acquired such a reputation that he was called (1723) to fill the philosophical and mathematical chair at Utrecht, and, in 1740, was invited to Leyden, to occupy the place left vacant by the death of Wittichius. He died there in 1761. His principal works are Elementa Physieæ; Tentamina Experimentorum (1731); Institutiones Physica (1748); Compendium Physica Experimentalis (1762). Musschenbroek rendered important services to science. His experiments and his calculations prove his sagacity and accuracy. He invented the pyrometer, which has since been improved by Lambert.

Must; the juice of the grape, which by fermentation is converted into wine. In the wine countries this unfermented sweet must is distinguished from the sour must, or unripe wine, of a year old. Fresh must contains a good deal of sugar and mucilage, which last disposes it to fermentation. It can be kept in close vessels,

after the mucilage has been precipitated. Mustard (sinapis nigra) is a native of Europe, and is now naturalized, and a common weed in some parts of the It is, besides, very com-United States. monly cultivated for the sake of the seeds, which, when powdered and mixed with vinegar, form a well known pungent condiments in daily use. The root is annual; the stem three or four feet high; the lower leaves are lyrate, and the upper ones lanceolate and entire; the flowers are small and yellow. It belongs to the natural family crucifera, and is known by the smooth, four-cornered pods, which are pressed close to the stem. ble mustard, mixed with warm water, and taken in considerable quantities, acts as au emetic, and, as such, is so much the more valuable from its being always at hand. The white mustard (S. alba) is milder than the preceding, and, on this

account, is more agreeable to some pal-

MUSTER, in a military sense; a review of troops under arms, to see if they be complete and in good order; to take an account of their numbers, the condition they are in, viewing their arms and accourtements, &c.

MUSTER ROLL; a list of the officers and men in every regiment, troop or company, which is delivered to the inspecting fieldofficer, muster-master, regimental or district pay-muster (as the case may be), whereby their condition is known.

Musroxidi, count Andrew, one of the most distinguished Greek scholars of the age, was born at Corfu, in 1785, and studied at Venice and Milan. His work on Corcyru, Per servire all' Istoria Corciresa dai Tempi eroici al Secolo XII, procured him the post of historiographer to the government of the Ionian Isles. In 1811 and 1814, appeared the two first volumes of his history of Coreyra, under the title of Illustrazioni Corciresi. In 1816, he wrote an essay on the horses of St. Mark's, Venice, in which he proves that they did not belong to the triumphal arch of Nero, in Rome, but that they were brought from the island of Chios, and placed in the circus in Constantinople, in the time of the emperor Theodosius. On the erection of a university in his native country, he returned to Corfu to fill one of the chairs, and, in 1827, accompanied count Capo d'Istria from Geneva to Ancona and

Muris, Joseph Celestino, a celebrated botanist, born at Cadiz, in 1732, was assistant professor of anatomy at Madrid. and made botany the particular object of his attention. Having accompanied the viceroy don Pedro Mesia de la Cerda to New Grenada, in the capacity of his physician, Mutis enriched his favorite science with the description of unknown plants in that region. We are indebted to him for the first accurate accounts of various sorts of cinchona, on which he published a He died in 1808, His Flora of Bogota, left unfinished at the time of his death, was completed by his nephew.

MUTUAL INSTRUCTION is the name given to that arrangement of schools by which the more able scholars in every class assist and superintend their fellow pupils. This name, which originated in France, is not appropriate, as mutual instruction does not, in fact, take place, but some of the most distinguished scholars occupy the place of the master, while the less able do not in turn instruct them The origin of this system may be traced

to India, where the traveller Della Valle found it established as early as the sixteenth century. The object of this system is to carry on schools chiefly by means of the scholars themselves, and to instruct an uncommon number of pupils at once (Lancaster had 880 together, and says that he could teach 1000), with comparatively few masters and little expense. The pupils are divided into small classes, each instructed by one of the more advanced scholars, in reading, writing, arithmetic, &c., as far as the little teacher has been taught previously by the master. Such little teachers are called monitors, and have a class of about ten on a bench, or, as Bell prefers, standing in a semicir-The oldest and most trustworthy pupils have the superintendence as general monitors. Other assistants take care of the lower departments of service, or the police of the school; one notes down the absent, one rules the writing-books, attends to the distribution of slates, &c. The strictest discipline and order being observed, the whole appears like a great piece of clock-work, which moves without the interference of one part with another. The school resembles an army, which a single man is enabled to command by means of order and discipline, and because every one knows precisely his duty. All are instructed, and teachers are formed at the same time. Cheapness is always kept in view. The pupils commence learning writing by making figures on tables covered with sand; then old paper, written or printed on one side, is taken In England, where this system was first introduced from India, 500,000 (in London alone, 8000, in 43 schools), in Ireland, 30,000 children, are educated according to this method, which has been greatly improved of late years. Lancaster was engaged, in 1824, in establishing similar schools, under the protection of Bolivar, in the South American republic Colombia. In the British East Indies, a society at Calcutta has established 88 schools on his plan, which has been also adopted at Malta, the cape of Good Hope, on the Senegal, in Sierra Leone, and other English colonies. The Greeks also have made use of this means for the establishment of elementary schools (in which they were entirely deficient), on a cheap plan, at Athens, Argos, and on the From France, an interest for them was excited in Italy, where Tuscany and Parma (the latter since 1822) have permitted their establishment. In Naples and in Spain, where similar schools

were established under the cortes of 1821 and 1822, in the principal towns, they were prohibited in 1823. France had, in 1821, as many as 1197 schools for children, and 166 regimental schools, according to this system. The latter were compelled, under the Bourbons, to renounce this method entirely, and the constant opposition of the ecclesiastics and the ministry lessened the number of the former, it being considered dangerous, and savoring of liberalism, to keep on foot such an institution for the improvement of the nation, in a country, where, amongst 24,000,000 of adults, only 9,000,000 could write and read, and of 6,000,000 of children, only 1,600,000 enjoyed the benefit of school education. From a similar cause, this system was prohibited in the Austrian army and throughout Austria; and, in Russia, the zeal with which it was at first received soon abated, so that only attempts on a very small scale were allowed. The Danish government, on the contrary, began, in 1819, with great zeal and success, to introduce these schools in Denmark, Holstein and Sleswick. The plan, though not the same in all particulars, resembles, in its chief traits, that of Bell and Lancaster. The number of schools in that country has rapidly increased, and, according to a late report, amounted, in 1820, to 2646. Professor Schulmacher. rector of the cathedral school at Sleswick, in a report on the system of mutua, instruction, observes, that it is excellent, as long as it limits itself to matters of mechanical skill or of mere memory. It saves time for the teacher and pupil; it saves expense in the business of education, and is highly beneficial for all elementary schools containing a large number of pupils, differing so much in knowledge and intelligence, that one teacher cannot instruct them all at the same time, but is obliged to divide them into many classes. This method, however, is superfluous in schools in which the number of pupils is so small that the teacher can superintend and instruct them conveniently, particularly where all the members of one class have made nearly equal progress. And even in common schools, it would be injurious to strive to bring every thing into this form, as it would put a stop to the highest kind of instruction; and in the institutions for a more advanced stage of education, where a scientific spirit, independent thought, the formation of the judgment and taste, are the objects, it is more pecu-Much information liarly inapplicable. respecting this method in Denmark is

contained in the Progrès de l'Enseignement Muluel en Danemark, extrait d'un Rapport au Roi, par M. d'Abramson, Major, &c. (Copenhagen, 1825). The proper field of this system is, undoubtedly, elementary instruction. It will hardly be denied that it is of great assistance in teaching the rudiments of knowledge, reading, writing, and ciphering, besides accustoming the pupils to habits of order. It will also be admitted, at least by all who live in popular governments, that every individual ought to be taught reading and writing, without which, in the present state of the world, he is excluded from half the benefits of existence. Where, therefore, a large population is imperfectly supplied with the means of instruction, schools of this character will be of great benefit. Besides, all primary instruction must be addressed chiefly to the memory, notwithstanding learning by rote is so much decried in our day; and teachers, we imagine, might often accelerate the progress of their pupils in the branches taught in early childhood, by a more extensive application of the system of mutual instruction. The late king of Portugal established, in 1824, a central school on these principles, at Lisbon, through the instrumentality of professor Lecocq; but it has probably long since been destroyed by the violent convulsions of that unhappy country.

MYGENE; an ancient city of Argolis, Peloponnesus, eighty studia from Argos, built by Perseus. It was the residence of Agamemnon, and its ruins are still seen in the state in which they were described by Pausanias. The Lions' gate, the vaulted building of enormous stones, called the treasury of Alreus, &c., are minutely described by Leake (Travels in the Morea,

1830). Myconi (anciently Muconus); an island in the department of the Northern Cyclades, in the Grecian Archipelago, about 21 miles in circuit; lon. 25°23' E.; lat. 37° 27' N.; the population, at present, is about 4506, according to Anderson (Observations, &c., 1830). They are Greek Christians, and distinguished navigators. chief town, Myconi, a scaport, contains about 4000 inhabitants. The soil is dry and mountainous, but the mountains are not very high. It produces little wheat, but plenty of barley, ruisins and figs, with some olives. Partridges, quails, turtle-doves, bec-

caticos and rabbits, are in the greatest plenty.

MYLITTA; the Venus of the Assyrians (with the Arabians, Alitta, and with the Persians, Mythra). She was, as goddess

of the moon, the female principle of generation. Among the licentious Babylonians, it was the custom for every woman to prostitute herself once to a stranger for a certain sum of money, in the temple of Venus Mylitta. 'The money was deposited by the woman in the treasury of the temple. Herodotus relates, that the women, with wreaths on their heads, seated themselves in the porticoes of the temple, through which the strangers passed to make their selection. dared not return home till some stranger had thrown into their lap the money, with these words, "I invoke for you the goddess Mylitta."

MYLNE, Robert; an architect of considerable eminence, memorable as the builder of Blackfriars bridge across the Thames, which was commenced in 1760, and completed in 1770. It was the first work of the kind executed in England, in which arches approaching to the form of an ellipsis were substituted for semicircles, by means of which the roadway is brought much nearer to a level surface than in bridges constructed on the old plan. Mylne obtained the appointment of surveyor of St. Paul's cathedral, and was employed in the crection of many private edifices in various parts of the kingdom. He died in 1811.

MyoLogy; the branch of anatomy relating to the muscles. (See Anatomy.)
MyoPla. (See Short-sightedness.)

MYRIAD; ten thousand: in poetical language, it generally implies an innumerable multitude.

Myriorama (Greek, μυριας, ten thousand, δραμα, view); a sort of landscape kaleidoscope recently invented by Brés, of Paris, and improved by Clark, of London. It is a movable picture, capable of forming an almost endless variety of picturesque scenes, by means of several fragments or sections of landscapes on cards, which may be placed together in numberless combinations. With 16 cards 20,922,789,888,000 changes may be made.

MYRMIDONS; a people on the southern borders of Thessaly, who accompanied Achilles to the Trojan war. They received their name from Myrmidon, a son of Jupiter and Eurymedusa, or, according to some, from their having been originally ants, μυρρηκες. (See *Eacus.*) The term has received the signification of a bully, ruffian, or satellite of tyranny.

MYRON; a celebrated statuary of Greece, who was peculiarly happy in initating nature. He made a cow so much resembling life, that even bulls were deceived, and approached her as if alive, as is mentioned by many epigrams in the Anthologia. He flourished about 442 years before Christ.

MYRRH; a fragrant, bitter, aromatic gum resin, which is obtained from an undetermined tree in Arabia, and especially in Abyssinia. It comes to us in grains having a resinous fracture, and a slightly acrid taste. According to Pelletier, it is composed of thirty-four parts of resin and sixty-six of gum. The Abyssinian myrrh is brought from the East Indies, and the Arabian comes by the way of Turkey. It is used in a great variety of medicinal preparations.

Myrrha; a daughter of Cinyras, king of Cyprus. She became enamored of her father, and introduced herself into his bed unknown. She had a son by him called Adonis. When Cinyras was apprized of the incest he had committed, he attempted to stab his daughter, and Myrrha fled into Arabia, where she was changed

into a tree called myrrh.

MYRTLE; a genus of plants consisting of aromatic trees or shrubs, with simple opposite leaves, which are sprinkled with pellucid glandular points, and having axillary or terminal white or rose-colored flowers. One species, the common myrtle, is a native of the south of Europe, and other countries bordering on the It has been celebrated Mediterraneau. from remote antiquity on account of its fragrance and the beauty of its evergreen foliage, and, by different nations, was consecrated to various religious purposes. Myrtle wreaths adorned the brows of bloodless victors, and were the symbol of authority for magistrates at Athens. With the moderns, it has always been a favorite ornamental plant, and is commonly culti-vated in gardens both in Europe and America. Pimento or allspice is the produce of a species of myrtle inhabiting tropical America, and consists of the berries, which are collected before they are ripe, and dried in the sun. No species of myrtle, nor, indeed, of the large family myrtucea, inhabits any part of the U. States.

MYRTLE WAX; a concrete oil, or vegetable wax, the product of the class of plants myrica, more commonly known by the name of candleberry myrtle. There are many plants which afford a concrete oil or wax; and even the light matter which is called the down of fruits, and which silvers the surface of prunes and other stone fruits, Proust has shown to be wax; but the indigenous family of myrica affords much the greatest abundance, and, in many respects, is entitled to the atten-

tion of cultivators. "The advantageous properties that this tree appears to possess," says M. Cadet, in the Annalcs de Chimie, tome 44, " ought to have induced philosophers to make inquiry to ascertain the various properties of the vegetable, and what attention its culture might require: it has long been considered merely as an object of curiosity." The plant abounds in nearly all parts of the U. States, distinguished into four species: viz .- 1. Gale; 2. Cerifera; 3. Caroliniensis; 4. Pennsylvanica. It varies in sizo from four to eighteen feet, becoming taller as it extends into the warmer regions. The bush or tree has somewhat the appearance of the common myrtle (myrtus communis), and bears a berry of the size of the pepper-grain or coriander-seed. These grains are of a common ash-color, containing a small, round, hard kernel, which is covered with a shining wax, that may be obtained by boiling the grains in water. Toscan, in a memoir inserted in his work entitled L'Ami de la Nature, gives a full account of the manner of procuring the berries, and preparing the wax. The plant itself has always been esteemed a great ornament in foreign countries, and much exertion and expense have been bestowed to promote its growth in the European gardens. The wax is prepared for commerce by the poor people along the northern lakes, and might, by proper attention, be rendered an important article of traffic. So much was the product of the plant valued by the king of Prussia, that the tapers made of it were reserved entirely for the sick-room of the royal household, it emitting, when burning, the most delicious and balsamic odor. was noticed, as early as the year 1729, in a memoir of M. Alexandre, published in the History of the Academy of Sciences. Charles Louis Cadet has given an excellent account of the natural history, &c., in the Ann. de Chimie, already referred to; and doctor John Bostock has furnished a chemical analysis of its properties and habitudes, in Nicholson's Journal, vol. iv. It has recently been introduced to the notice of the medical public, as possessing anti-dysenteric properties, by William M. Fahnestock, M. D., who used it very successfully in that disease which was epidemic at Harrisburg, Pa., during the summer of 1822 .- See American Journal of the Medical Sciences (vol. ii, 1828).

Mysia; a country of Asia Minor, which, in the most extensive sense, comprehended all the north-western portion of the peninsula, and bordered on the Ægean, the

Propontis, Rithynia and Lydia. The coast was inhabited by Æolian Greeks, the interior by different tribes. Lampsacus, Cyzicus and Pergamus were the principal cities.

Mysore, or Maisoon; a principality of South India, chiefly between lat. 11° and 15° N., surrounded by the British territories subject to the presidency of Madras; about 210 miles long, and 140 broad; population in 1804, 2,171,754; families, 482,612; Mohammedan families, 17,000; Bramin families, 25,370; Linguit families, 72,627; Jain families, 2063. It consists of high table-land, elevated about 3000 feet above the level of the sea, from which rise a number of lofty hills, containing the sources of many rivers, the principal of which are the Cauvery, Toombuddra, Vedawati, Bradri and Penar. The climate, on account of the elevation of the country, is The soil produces all the temperate. grains and vegetables of the other parts of India, and many of the fruits of Europe. The rajah is tributary to the British. The first rajah mentioned in history is Cham Raj, who began to reign in 1507. But the territories of Mysore received their most important accessions from the victories of Hyder Ali (q. v.), in the middle of the eighteenth century, who, without assuming the title, exercised all the power of sovereignty. His so: Tippoo Saib (q. v.) perished in defending his capital in 1799, after an unsuccessful struggle with the British, who placed a descendant of the ancient rajahs on the throne. (See East India Companies.)

Mystagogue, in the mysteries of antiquity; he who introduced the person to be initiated, also he who showed the interior of the temple. Hence mystagogue has been used, in modern times, for a person who pretends to deal in mysteries.

Mysteries were, among the Greeks, and afterwards, also, among the Romans, secret religious assemblies, which no uninitiated person was permitted to approach. They originated at a very early period. They were designed to interpret those mythological tables and religious rites, the true meaning of which it was thought expedient to conceal from the people. They were perhaps necessary in those times, in which the superstitions, the errors and the prejudices of the people could not be openly exposed without danger to the public peace. Upon this ground they were tolerated and protected by the state. Their first and fundamental law was a profound secrecy. In all mysteries there were dramatic exhibitions, relating to the exploits of the deities, in whose honor

they were celebrated. The most important Greek mysteries were, 1. the Eleusinian (described in the article Eleusis). 2. The Samothracian, which originated in Crete and Phrygia, and were celebrated in the former country in honor of Jupiter. From these countries they were introduced among the Thracians or Pelasgians in the island of Samothrace, and extended from thence into Greece. They were celebrated sometimes in honor of Jupiter, sometimes of Bacchus, and sometimes of Ceres. (For further information respecting the Samothracian mysteries, see Cabiri). 3. The Dionysia, which were brought from Thrace to Thebes, and were very similar to the former. They were celebrated every second year. The transition of men from barbarism to civilization was likewise represented in them. The women were clothed in skins of beasts. With a spear (thyrsus) bound with ivy in their hands, they ascended mount Cithæron, where, after the religious ceremonics, wild dances were performed, which ended with the dispersion of the priestesses and the initiated in the neighboring woods. They had also symbols, chiefly relating to Bacchus, who was the hero of these mysteries. These celebrations were forbidden in Thebes, even in the time of Epaminondas, and afterwards in all Greece, as prejudicial to the public peace and morals. 4. The Orphic, chiefly deserving mention as the probable foundation of the Eleusinian. 5. The mysteries of Isis (q. v.) were not in vogue in Greece, but were very popular in Italy, particularly in Rome. An excellent work upon mysteries is St. Croix's Recherches historiques et critiques sur les Mustères du Paganisme (second edition, revised by Sylv. de Sacy, Paris, 1817, 2 vols.).

Mysteries, or more properly Miracles; a kind of rude drama, which was a favorite spectacle in the middle ages, represented at solemn festivals. The subjects were of a religious character, and the ecclesiastics were at first the performers and au-They were called mysteries and thors. miracles, because they taught the mysterious doctrines of Christianity, and represented the miracles of the first founders of the faith, of the saints and martyrs. (See France, Literature of, division Dramatic Poetry.) The first play of this sort, specified by name, appears to have been St. Catharine, written, according to Matthew Paris, by Geoffrey, a Norman, about 1110. They sometimes lasted several days. Thus we hear of one which lasted eight days, and contained the greater part of the scripture history. The Corpus Christi, the famous Coventry mystery, begins with the creation, and ends with the judgment day. The passion of Christ, the slaughter of the innocents (in Hawkins's Origin of the English Drama), &c., are among the subjects represented. The Mysteries were superseded by the Moralities. (q. v.)

Mythology (from $\mu\nu\partial\nu_s$, tradition, tale, ble, and $\lambda\nu\gamma\nu_s$). The mythology of a nafable; and loyes). tion is the whole body of its traditions respecting its gods, or fabulous heroes. The mythology of the Greeks and Romans is most commonly indicated by this word, because, for a long time, it was almost the only one investigated; but, of late, attention has also been bestowed on the mythologies of other nations, as of the Hindoos, the northern tribes of early Europe, &c. Whether mythological fables are to be considered mainly as the invention of crafty priests, or allegorical expositions of truth, or gross conceptions of divine things formed by the ignorant, or as founded on historical facts, which have been varied and exaggerated by tradition, embellished by poetry, and purposely altered by cunning, they still retain their interest for the historian, to whom it is equally important to study the wide aberrations of mankind in the search for truth, as their successful attempts to attain it. Erroneous notions, which influence the belief and conduct of men for centuries, must have some broad foundation in human nature, and afford the means of tracing the progress of its gradual developement. The errors of mythology have their counterpart in politics and science; and we should no more think of rejecting it, as unworthy of study, on account of its absurdities, than we should of turning from the study of the feudal system, because of its glaring inconsistency with the true principles of government. If we wish to arrive at truth, we must investigate the causes of error.—In the article Metamorphosis, we have spoken of the constant wish of man to explain what surrounds him, to find causes for effects. This wish, deeply implanted in our soul to raise us above brutes, and make us intelligent beings, united with the natural disposition, or, rather, necessity of all nations, in the early stages of their history, to speak symbolically; their ignorance of the causes of natural phenomena; the ever-varying reports of tradition; the peculiar fondness of some tribes for poetical embellishments; the selfish purposes to which some individuals will always turn the credulity of their brethren; but, above all, the necessity of the human heart to

acknowledge and adore a supernatural power (the conception of which must be accommodated to the state of cultivation)—these causes sufficiently explain the origin of mythologies, particularly if we take into account the blending together of the traditions of different tribes, by means of migrations, &c. Independently of the illustrations which they afford of the state of morality and religion at given periods, the various mythologies are interesting on account of the historical facts which they frequently contain, though disguised by tradition, or the conclusions to which they lead, as to the connexion of different nations, at certain periods, or tho contrary. As to Greek mythology, investigations have been carried on, of late, with greater zeal in Germany than in any other country; and two very distinct theories respecting it have found adherents. Creuzer (q. v.), standing at the head of one party, understands by the word mythology "the symbolical religious poetry of the whole ancient world, which, being founded partly on a common language which nature suggests to all, partly derived from a common source, forms one inseparable whole." Godfrey Hermann (q. v.), another eminent German philologist, however, considers mythology as the science that teaches what notions were the basis of particular symbols in a particular nation. In the article Creuzer, a somewhat fuller account of his view of mythology is given. Hermann's view is contained in his letter to Creuzer, on the Nature and Treatment of Mythology (Leipsic, 1819), which was preceded by the Letters on Homer and Hesiod, especially on the Theogony (Heidelberg, 1818). A critical analysis only can enable us to understand the nature, origin, and connexion of the mythological tables. The nature of the subject itself must determine how it is to be treated; that is to say, how the true meaning is to be found out from symbolical expressions, or distorted representations. Greek mythology, and so that of every other nation, is a mass of various elements, though kindred in their origin, yet not forming a system. The sources of mythology are the notions which sprung up among the people, the dogmas of the priests, and the representations of those who treated of mythological subjects, without having been initiated into the religious mysteries. These three chief sources of mythology give rise to three chief periods, each requiring a peculiar treatment. The early national mythology of the Greeks is to be explained ctymologico-allegorically; the doctrine of

the priests, in a historico-dogmatical way; and the exoteric theory of the poets and philosophers, in a critical way. It belongs to a history of mythology to show how the cyclus of mythuses was formed by poets; how it was explained by the ancient writers on cosmogony and theogony; how it was used arbitrarily by the lyrical and tragic poets; and how it stands in close connexion with ancient history. Many treatises exist, affording rich materials for such a work. The period of the independent developement of mythological tables was followed by that of the Alexandrian collectors of mythuses; and these were succeeded by sophists and rhetoricians, who tried, with little success, to solve the riddles of mythology. The polemic zeal of the fathers of the church was of greater service, and to their computetions we owe the preservation of interesting mythuses. Though the labors of some scholars, previous to the time of Heyne, must be acknowledged to have thrown light on this subject, yet he deserves the honor of having first attempted, on just principles, the investigation of the meaning of the various traditions. Since Heyne and Voss, the native land of the different mythuses has been carefully investigated, and has been found in the East, where, of course, new obstacles arose; and the attempts of Kanne, Wagner, Görres, Dor-

nedden, Hug, Sickler, to ascertain the native soil of the mythological traditions, sometimes betray a want of accuracy and circumspection. Thus, by degrees, that theory was developed which Creuzer, in his Symbolics and Mythology, strives to establish, and which, through the great erndition and acuteness of the author, has found many adherents, viz. "that mythology is a great panorama of religious ideas and conceptions, mostly originating in the East, and conceived and developed in the Oriental fashion, from which, therefore, the symbolic, magic and allegoric cannot be excluded, any more than from the most ancient Greek poetry." Many maintain that the whole Greek mythology leads strongly to the supposition of the preëxistence of pure monotheism. Hermann, as we have said, opposed this view, and John H. Voss and Lobek warmly attacked it; but Görres, Von Hammer, Münter, Uwaroff and Ritter have attempted to give new reasons for its support. (For information respecting the mythology of India, and of the north of Europe, see Indian Mythology, and Northern Mythology.)

MYTHOLOGY, EGYPTIAN. (See Hiero-

glyphics.)

MYTHOLOGY, NORTHERN. (See Northern Mythology.)

MYTILENE, OF MITYLENE. (See Les-

N.

N; the fourteenth letter and 11th consonant of the English alphabet; an articulation formed by placing the point of the tongue against the root of the upper teeth, and forcing out the breath. It is a liquid, or semi-vowel, because part of its articulation may be continued for any length of time. It is a nasal letter, the articulation being accompanied by a sound through the nose, caused by the position of the tongue, which forces part of the air in the expiration through that organ. It is a lingual, because produced chiefly by the above-mentioned position of the tongue, which, as the reader will see from the article L, is nearly the same in the pronunciation of both these letters; in consequence of which persons, who, from negiect, or natural defect, are unable to inflect

the tongue, so as to pronounce l, often substitute an n instead of it. N has always something of a nasal sound, and in many languages is the strongest nasal sound; for instance, before the palatic sounds g and k, as in finger, tinker, ring; in French and Portuguese, after a vowel in the same syllable, as on, un, &c. For the etymologist n is important, on account of its ready union with other letters, and its frequent omission or insertion between other letters. The same word in the same language often has the n, in some of its modifications, before the palatic sounds g and k, and in others omits it. Thus the original frago, lago, pago, became in later Latin frungo, tango, pango, yet fregi, fractum, letigi, tactum, pepigi, pactum, &c., were retained. Thus also fingere and figura,

fictus, figmentum; stringere, strictus. From the Latin lynx, the German forms luchs (the Danes los, the Swedes lo); for the German danken (to thank) and the Swedish danka, the Icelandic has tacka: for the Greek usyas, the Romans had magnus. In the same way the Latin ending cus, passes over into gnus, as benignus, malignus, abiegnus, &c. It often associates also with the labials d and t, while other idioms omit it in the corresponding words; thus in Latin, scindo, scidi; findere, fidi. In German, the n before d is extremely frequent, thus jugend (youth); in Low Saxon, jögd only; tugend (virtue), for the ancient taugde; nackend (naked) for the old nacket; and in lebendig, wescullich, ordentlich, and a large number of other words. On the other hand, the Icelandic has for mantel (mantle) mattul, for hand (Swedish handa). only halt; for land, only lad, &c. From insula also comes the Italian isola. difficulty of passing quickly from the pronunciation of n to that of m, leads, in many languages, to a change of n before m into an m; thus the Latin con, in, the Greek w and our, the German en, are changed into com, im, &c., as committere, impar, the German empor, empfangen, empfinden, &c. Some languages put an aspirate before n, which in this case was probably pronounced with a strong breathing through the nose. Thus we find that for the German nacken (neck) the Anglo-Saxons had hnecca; for neigen, hnigan; for napf, hnaeppe. Palatic sounds were put before the n to strengthen it: thus the Germans made of the Latin nodus, knoten, &c.: even the sibilant sound s was used to strengthen it, as the German schnee for neu (still used by hunters), from nix, &c. By the Germans in modern Latin, N N. is used to indicate a proper name which the writer does not know or does not choose to give; and, according to Du Fresne, this sign originated about the cleventh century, from the abbreviated ille or illa, which was written Ill, with a dash through it, which at a later period was taken for two N's. It is certain that ILL appears in the formularies of Marculphus, and other writings before the eleventh century. We often find n omitted by the Greeks and by the Romans, when not final; thus Cicero writes Foresia, Megalesia, for Forensia, Megalensia. On inscriptions we find IMPESA for IMPENSA, and MESIBUS for MEN-SIBUS. In Plautus we find stas for stans. N, as a numeral, signified 90, or, according to Baronius, 900; with a dash over it, it signified 90,000. With the Greeks, stood for 50. As an abbreviation, N sig-

nifies noster, and on medals of the Lower Empire, D. N. signifies Dominus noster; it often also significal vos, novus, nepos, nobilis. In geography, it stands for north. On French coins, it means the mint of Montpellier. The Spanish alphabet has a character ii, called n with the tilde, and pronounced like ni in onion, minion; for

instance, España, Niiñez, niñez.

NABIS, a Sportan king, who lived about B. C. 200, was a tyrant, who at first assumed the appearance of a just prince, but afterwards imitated, externally, the Asiatic despots: He was surrounded by an armed guard, and had a multitude of secret spics in his service. Every suspected person was immediately put to death or banished. He plundered Messina and Argos, and would have continued. to extend his dominion still wider over Peloponnesus by artifice and force, had not the Romans, in alliance with the Achseans, declared war against him, Quintus Flaminius was not able to conquer bim; but Philopæmen, with the army of the Achæan league, was more successful. The tyrant was at last killed in Sparta, by his own allies, the Ætolians, whom he had called in to his assistance.

NABOB (a corruption of narab, the plural of naib, a deputy); in India, the title of a governor of a province or the commander of the troops; borne, however, by many persons as a mere titular appen-dage. The nabobs were subordinate to the subadars, or governors of a great extent of country (a subah). After the invasion of Nadir Schah (q.v.), they made thenselves independent of the Great Mogul, but only to fall under the more grinding domination of the English. The term has become proverbial, in English, to signify a person who has acquired great wealth in Hindostan, or lives with peculiar splendor.

NABONASSAR; a king of Babylon, with whose reign begins an epoch, called the era of Nabonassar, 747 or 746 B. C. (See

Epoch, p. 351.)

NACRE, OF MOTHER OF PEARL, is the inner part of the shell of the pearl muscle. This is of a brilliant and beautifully white color, and is usually separated from the external part by aqua-fortis, or the lapidary's mill. Pearl muscle shells are on this account an important article of traffic to China and many parts of India, as well as to the different countries of Europe. They are manufactured into beads, snuff-boxes, buttons and spoons, fish, and counters for card-playing, and innumerable other articles. The pearl muscles are not considered good as food; though, after

having been dried in the sun, they are sometimes eaten by the lower classes of people in the countries near which they are found.

NADIR, in astronomy; that point of the heavens which is diametrically opposite to the zenith, or point directly over our heads. The zenith and nadir are the two

poles of the horizon.

NADIR SCHAH, OF THAMAS KOULI KHAN, king of Persia, a famous conqueror and usurper, was born at Calot, in the province of Khorasan, in 1686. His father was governor of a fortress on the borders of Tartary, to which office he succeeded in his minority, under the guardianship of an uncle, who engrossed all the authority. He was subsequently kidnapped by the Usbecks, but escaped, after a detention of four years; and, in 1714, entered into the service of the beglerbeg of Muschadi, in Khorasan, whère he so much distinguished himself by his bravery, that he was intrusted with the command of a thousand cavalry, and was soon after placed at the head of an army, with which he gained a great victory over the Usbeck Tartars. This achievement excited so much jealousy in the beglerbeg, that he gave the command to another person, and, when Nadir remonstrated, ordered him to be bastinadoed. Irritated by this disgrace, he joined a band of robbers, and with this troop ravaged all the country, and, surprising Calot, put his uncle to death, although he had been previously negotiating with him, to enter the service of schah Thamas, king of Persia, of the clergy, he had him bow-strung. then exceedingly pressed by the Turks and Afghans. Such was the bad posture of his affairs, that the schall felt himself impelled to overlook this villany, and take the persons who sung them, and were Nadir into his service, who repulsed both his enemies, and was honored with the title of Thamas Kouli Khan. The schah, during his absence, having in person sus-tained a defeat from the Turks, was induced to-make peace with them, and Nadir was directed to disband his army of 70,000 men. Instead of obeying, he immediately led them to Ispahan, where he seized the schah, confined and deposed him, and proclaiming his son Abbas, then an infant, in his stead, assumed the title of regent. He forthwith renewed the war of regent. He forthwith renewed the war half of the sixth century after the build-with the Turks, and recovered all the lost ing of Rome. By the introduction of provinces; and the young king dying in 1736, he was mised to the sovereignty. edies, he provoked their anger, was ban-This elevation only extended his views; isleed from the city, and retired to Utica. and, being invited, by some conspirators. Fragments only of his works have come about the person of the Great Mogul (see - down to us. Mongols), to undertake the conquest of NAGASAKI, or NAWAABACKI; a seaport Block of the secret of the sec

India he began his march at the head of 120,000 men, and, with little resistance, reached Delhi, March 7, 1738. The riches which he found in this capital were immense; but, being exasperated by some tumults on the part of the inhabitants, he caused a general massacre, in which upwards of 100,000 persons perished. After this barbarity, the sanguinary victor concluded a peace with the Mogul, whose daughter he married, receiving with her, as a dowry, some of the finest provinces of the empire that were contiguous to Persia. In this expedition, it is supposed that he carried away, and distributed among his officers, valuables to the amount of nearly \$500,000,000. On his return, he levied war against the Usbecks and others; but had nearly lost his life by an assassin, instigated by his own son. In 1745, he defeated the Turks at Erivan. A conspiracy having been formed against him by the commander of his body-guard, and his own nephew, he was assassinated in his tent, June 8, 1747; his nephew, Ali Kouli, succeeding to the throne. This extraordinary usurper was of a tall stature and robust form, with handsome and expressive features. His conduct sufficiently marks his cruelty, ambition and rapacity. His most favorable feature appears to have been a disposition to religious toleration. On his accession to the throne, he required certain curses pronounced annually on . the caliphs preceding Ali, and other incentives to religious strife, to be dispensed with; which being objected to by the head

NENIA (Latin); a funeral song, among the ancients, sung generally by women, at interments. As they were composed by rather unmeaning, the word came to signify any trifling, unmeaning song. Nania was also the goddess of lamentation, who was invoked at the funerals of the aged. and had a temple before the Viminal Gate.

Navius, Cheius, one of the most celebrated among the earliest Roman poets, was born in Campania, and wrote tragedies and comedies after the model of the Greek. He also wrote an epic poem upon the Punic war, and another in imitation of the Cyprian Ilias. He lived in the first some of the Roman nobility into his com-

NAGASAKI—NAIL-MAKING mo, situated at the end of a commodious. bay; lon. 129° 45′ E.; laf. 32° 44′ N. It is a large commercial town, the only place : where Europeans are permitted to trade. a privilege now confined to the Dutch. The Dutch town is built on the island of, Desima, 600 feet long, and 120 broad, adjoining Nagasaki, and contains several large store-houses. The harbor is three miles long, and one broad. The Japanese town is divided into the inner and. outward town; the former of which contains twenty-six, and the latter sixty-one streets, in none of which strangers are suffered to dwell; they have particular suburbs allotted to them, where they are . narrowly watched by the emperor's officers. The chief public buildings are five janaguras, or large houses, of timber, where are kept three imperial junks, or men-of-war, ready to be launched at command; the palaces of the two residing governors; and other princes and grandees of the first and second rank; about sixty-. two temples, within and without the city; most of them built on eminences, and serving not only for devotion, but also for recreation; the common prison, standing near the middle of the town, and consisting of about one hundred huts, or cages, separated from each other. The houses are low and mean; the inhabitants are mostly merchants, tradesmen, shopkeepers, and handicraftsmen. (See Japan.)

NAHANT is the Indian name of a peninsula, which extends into the sea from the township of Lynn, Massachusetts, nine miles south of Salem, and fourteen northeast from Boston. It is divided into Great." Nahant, Little Nahant, and Bass Neck. The isthmus leading from the main land to Little Nahant is a mile and a half long and very narrow. Passing over this small peninsula, another delightful beach, ninety rods long, connects it with Great Nahant. These beaches are very hard and smooth, and are of sufficient width, at low water, to accommodate thousands with a delightful walk or ride. Great Nahant contains 305 acres of land. The shores of this peninsula are bold and rocky. When an a second rolling. The end of this plate is easterly wind drives the sea into the bay, then presented to the nail machine, by a the dashing of the waves against these workman, who turns the plate over once

1710, at Berlin, and educated there under die at the extremity, which proceds the

the celebrated Schlüter. After having made a tour through France and Italy, he returned to Berlin in 1741, where, and likewise at Potsdam, Sanssouci and Charlotten-burg, many of his works are to be seen. In 1746, he went to Switzerland, and passed nine years in that country, princi-pally at Berne. In 1755, Nahl was created professor in the academy of arts in Cassel, and there executed the admirable colossal statue of the landgrave Frederic, which stands in Frederic's square. He died in Cassel, 1781.

died in Caseel, 1781.

Nature; one of the twelve, minor prophets, whose prophecies relate to the describes in vivid colors. His object, according to some late German writers. seems to be to represent to his nation, groaning under the oppression which they had suffered from the Assyrians, the total destruction of the haughty capital, as a just punishment of Jehovah. The period in which he lived is, however, uncertain, some placing it before, and some contemporary with that event.

NAIADS (from the Greek vary, to inhabit, or yes, to swim, in the Greek mythology; nymphs of fountains and brooks. The notions and tales of the ancients concerning the Naiads resemble, in some points, those which the northern mythology gives us of the Nixies. The Naiads are represented as beautiful women. with their heads crowned with rushes. and reclining against an urn, from which water is flowing.

NAIL-MAKING. Nails are made both by hand and by machinery. Wrought nails are made singly at the forge and anvil, by workmen who acquire, from practice, great despatch in the operation. chines have been made for making these nails perfectly, and with rapidity; yet they have not come into general use, owing to the cheapness of the product by manual labor. Cut noils are made almost wholly by machinery invented in the U. States. The iron, after having been rolled. and slit into rods, is flattened into plates. of the thickness intended for the nails, by shores presents a scene of great suffilmity. For every nail. The machine has a rapid During the most suftry part of summer, reciprocating motion, and cuts off, at every there is usually a refreshing breeze at Na, stroke, a wedge shaped piece of iron, conhant, which renders it a place of great stituting a nail without a head. This is resort for those who seek for health or immediately caught near its largest end, pleasure.

NARI, Johann August, a sculptor, bords same time, a strong force is applied to a 1710 at Barlin, and educated them indeed dies at the entererity, which sorrounds the mail. Some nails are made of cast iron, which, without studied correctness, speaks but these are always brittle, unless after. directly to the heart. No affectation is so wards converted into malleable iron by offensive as affected namele, because it

wards converted into malleable iron by offensive as affected naivele, because it the requisite process.

NAIN; a village eight miles from Nazar on its forehead; and yet how often is it reth, forty-two from lerusalem; at the first met with in modern society!

of mount Hermon, celebrated as the first met with in modern society!

of mount Hermon, celebrated his fire place.

NALDI, Sebastiano; a celebrated Italian where Christ restored a dead man to life. buffo singer, who visited London in the Naivera; a French word, which has early part of the present century. Naldi become naturalized in several other lan-met his death in Paris, in 1819, by the exguages; for instance, in the English, plosion of an apparatus which had been the word is of Land origin, derived from Naives. These are 1 given or bannativist (natural summething toesessed from Naives. natives (natural strengthing possessed from Nature. These are, 1. given or bapnature); in low Lamb, nature. The tismal names (see Dolz's work upon Bupfrench Dictionnaire de l'Academie gives tismal Names, Leipsic, 1814); 2. family the following definition of nativel, names, which are added as an hereditary. sans fard, sans artifice, also que représente distinction to the proper or baptismal names. of a person, qui dit sa pensée ingénument et same détour. Sometimes it is used in dispraise, and then means, ou est trop in-gent dans sa simplicité. It could easily be imagined, that a word of such a description, received into a foreign language, would be used in no very distinct and precise meaning. The essential meaning of the word is a natural, unreserved expression of sentiments and thoughts, without regard to conventional rules, and without weighing the construction which may be put upon the language or conduct. Thus it is intimately connected with what the ancients called charis (gratia), as . Ramdohr, in his work Charis, has shown. Nativete, therefore, can appear such only to a person accustomed to the practice of conventional proprieties. Naiveté generally implies inexperience of the world; of heart, unimpaired by the chilling ex- tinguishes the clan (gens); and Cicero the capricious regulations of society, trusting with childlike confidence, as it has no awakens in the observer the smile of su-, had a baptismal name only. periority. But as soon as we have reason to believe that the childish simplicity is more, guly childike, proceeding from a adding their father's name to their own; heart'full of innocence and truth, and a greatness of soul which discussions concern soln, sen; for examples Johnson, mus-ment and grafice, then the smile of self-soln, sen; for examples Johnson, mus-complication vanishes, and is succeeded liamson, Thorwaldson, Wilmsen (that is, "Complication of the smile of the smi by admiration of the ingentiqueness pro- Williamsson. To this class belong, sented to us. The term is sometimes ap- without doubt, also, those proper names

sufficiently to form a head to the or lower orders of society; or to music,

tismal Names, Leipsic, 1814); 2. family names, which are added as an hereditary. families at Athens and Sparts, had no family names. Among the Romans, each person had commonly three names—a proper name (prænomen, the distinction of the individual), the name of the clan (nomen), and the family name (cognomen). Sometimes, also, a surname was added, which was borrowed from some distinguished exploit or romarkable event. The pranomen was placed first, and commonly written with one or two letters; for example, A., Aulus; C., Caius; L., Lucius; M., Marcus; P., Publius; Q.; Quintus; T., Titus; Ap., Appius; Cn., Cueius; Sex., Sextus, &c. Then followed the nomen; for example, Cornelius, Fabius, Julius (from the clan (gens), Cornelian, Fabian, Julian). Lastly came the cognomen; for example, Cicero. Cæsar, Scipio, and others. In the name M. Tullius Cicero, M. is the prænomen, hence it is not unfrequently taken for which distinguishes him from his brother, want of judgment. It implies simplicity Quintus; Tullius, the nomen, which disperfences of life, and unfettered by the cognomen, which shows his family. Instances of surnames (agnomen) are Africonus (see Scipio) and the like. In Gerdisposition to cunning or guile. Schiller many, and other kindred nations, family, ish simplicity; and the latter ingredient before the fourteenth century. Every one The most ancient method of distinguishing different individuals of the same name consisted in hense originated many English, Danish and German names, which end in son, plied to works of literature or the fine, ending in i (the termination of the Latin aru; for instance, to 'peetry, which ex- genitive), which frequently occur as presses natural facility in a simple man, names of a clan, such as fuguet (fuguener; particularly to that of the earlier ages, it fline). In a similar manner originated the Spanish names ending in 22, such as see, situated at the confluence of the Fernandez, Rodriguez; that is to say, Sambre with the Meuse; lat 50° 28' N.; Ferdinand's, Rodriguez; that is to say, Sambre with the Meuse; lat 50° 28' N.; Ferdinand's, Rodriguez; that is to say, Sambre with the Meuse; lat 50° 28' N.; Ferdinand's, Rodriguez; that is to say, Sambre with the Meuse; lat 50° 28' N.; Ferdinand's, Rodriguez; that is to say, Sambre with the Meuse; lat 50° 28' N.; Ferdinand's, Rodriguez; that is from Brussels; ticles Mac, and Fitz.) The Arabians call 116 from Amsterdam. The fortifications, no one by his own or proper name. Suppose some one whose fasher is named have been restored; it has also a citadel would be called Ebn Haki (Hali's son), and on a steep rock. The cathedral is the bis son Ebn Zoar. With feudalism, new principal public edifice: there are sixteent. would be called Lin Han [Han's son], and on a steep rock. The cathedral is the his son Ebn Zoar. With feudalism new principal public edifice: there are sixteen names were introduced, derived from the other churches, several hospitals, &c. i. districts conferred on the nobles, or from population, 16,150. Cutlery and other the feudal relations. The hobility had, iron wates, glass, leather, tobacco, are the every where, family names long before principal articles of manufacture. Nathe commoners. Another class of family mur has been often taken in the wars names among commoners was derived between France, Holland and Austria. from their occupations or the places of and has been several times inundated, their birth; for example, Smith, Miller, Nancy; a city of France, formerly the Fisher, French, Welsh, Dutch, &c., or from capital of the duchy of Lornine (q. v.). the signs which tradesmen put up before now the chief place of the department of their shops, such as King, Duke. Some the Meurthe; a bishop's see; lat. 48° 42'N.; given origin to names, which have de-natural situation of the city, in a pleasant scended to the posterity of those on whom plain, near the left bank of the Meurthe, they were bestowed, such as Brown, is agreeable, and the buildings are hand-Long, Broadhead. In Germany, family some. The embellishments of the place names first came into general use among are principally owing to Stanislaus, king commoners in the seventeenth century, of Poland, who resided here. The old (See Wiarda's Ueber Deutsche Vor und Geschlechtsnamen (Berlin, 1800); Euseb. Salverte's Essai Historique et Philosophique sur les Noms d'Hommes, de Peuples et de Lieux, considérés principalement dans leurs Rapports avec la Civilisation (Paris, 1824. 2 vols.).

NAMOR; lately a province of the kingdom of the Netherlands, since 1831 belonging to Belgium. It is composed of the greatest part of the county of Namur, of a part of the principality of Liege, and some parts of the duchy of Brabant and French Hainault: within these limits, constituted in 1814, it contains 156,400 the cathedral, and the Franciscan church, inhabitants, on a superficial area of 1380 square miles. The soil is remarkably attention; the latter contains the tomb of rich; the face of the country is a plain, in- Charles the Bold, duke of Burgundy, terrupted by low hills, which are covered who fell under the walls of Nancy, in with woods. Besides the products of 1477. There are also an academy, a pubwith woods. Besides the products of 1477. There are also an academy, a pubtillage and grazing, which is extensively. Ilc library of 23,000 volumes, a lyceum, carried on, iron, copper, lead, marble and a society of ares and sciences, a cabinet coal are found. The country of Namuri of natural philosophy, a botanical garden, was sold by the last country of Philip the and numerous other literary and charita-Good, duke of Burgundy, in 1421. By ble institutions. Woollen and cotton the marriage of Maximilian with Mary of goods and paper hangings are the principal Burgundy (1477), it passed, with the other palarticles of manufacture. Louis XIV. Belgic provinces to the house of Austria, took prospection of Nancy in 1661, and Belgic provinces to the house of Austria; took possession of Nancy in 1661, and by the peace of Luneville, it was ceded in caused the fortifications to be demolished. France, and formed a part of the French Nangasacki. (See Nagasaki.)

empire till 1814, when it was annexed to Nant, John Baptist Felix Gaspar, a the new kingdom of the Netherlands. Venetian historian, was born at Venetian Nanya; the capital of the Belgic proves 1638 he accompanied his father to Rome, ince of the same name, and an Emiscopil, whither the latter was sent as ambiguador

times striking external peculiarities have lon. 6°, 10'.E.; population, 29,122. The town is dark and irregularly built, but the new town is regularly laid out, and contains handsome streets, with splendid buildings and delightful public walks. The royal square, from which a triumphal gate leads into Carrière square, containing a promenade, terminated by the government palace, and two beautiful gates, leading into the old town, and the Pepinière, a charming walk, is particularly distinguished. Alliance square has its name from two pillars erected, in 1759, commemorative of the alliance concluded between France and Austria. Among the churches, with its rotunda, are the most deserving of

aion lasted twenty-five years, during but the rest is well inhabited. which he enjoyed the confidence of can quarters of it are extremely populous, and dinal Mazarin. He was appointed history full of business. It is still the first city in history per and keeper of the archives of China with regard to manufactures. The the republic. He resided three years as stable one is silk, also the cotton stuffs ambassator at Vienna. From Louis that bear its name; beautiful paper and XIV he obtained back Candia. He was printing. It is also the most learned city also made procurator of St. Mark, the in the empire, and produces the greatest highest dignity after that, of dogs, and number of doctors, and has the best furtiwas one of the commissioners who some hished booksellers shops. The streets piled the Legum Venethrum compilatarum; Methodas (1678, 400.). He died in the year 1678. He left a relation of his socond mission in France, and a report on. the condition and resources of Germany but his great work is Istoria della Republic ca Penets, the first part of which was published in 1676 (4to.), the second, after the author's death. It forms the eighth and pinth volume of the Collection of Venetian. Historians (1720, 410.). Nani begins his by cornices and small projections covered work with the year 1613. It is praised with green varnished tiles. It is mounted for the political sagacity, which it exhibits, by 884 steps. but the style is censured.

NANKEEN, OF NANKING; a sort of cotton cloth, which takes its name from the city of Nanking, where it was originally man-It is now imitated in most ufactured. other countries where cotton goods are woven; but those of the East are superior, on account of the natural color of the

give it the proper hue by artificial means. Nan-king, or Namein, or Klane-ning; a city of China, capital of Klang-nau, 500 miles south-east of Peking; lon. 1180 47' E.; lat. 32° 5' N.: the amount of the population is uncertain; it has been computed at one; two, and even three millions. Nanking surpasses in extent all the other cities of China. We are assured that its walls are sixteen miles in circumference. This city is situated at the distance of three miles from the river Yanguse-kiang. It is NANTES, a city of France, capital of the integral in the modulation which the department of the Lower Loire, and within its circumstrance having pre-episcopal see, is situated on the Loire, weather its being bailt on a regular plan. It twenty-six miles from the Atlantic, in an

In 1643, he himself was sent as implessed which mothing remains but the remem-for of the republic to France. His mis-brance. A third of the city is deserted, Some The streets are not so broad as those of Pe-king; ,they are, however, very beautiful, well paved, and bordered with rich shops. Here are no public edifices corresponding to the reputation of so celebrated a city, except its gates, which are beautiful, and some temples, among which is the famous por-: celain tower-a pagoda of octagonal form, 200 feet high, and divided into nine stories, by plain boards within and without,

NANNINI, Agnolo (known under the name of Firenzuola, the place whence his family originated), a celebrated author, born in Florence, in 1493, studied at Sienna and Perugia, went to Rome, and centered the order of Valombrosa, and became successively abbot of Sta. Maria di Spoleto, and of S. Salvador di Vajano. cotton (gossyrium religiosum) being red-dish, while, in thing countries where noted Pietro Arctino, whom he resembled; white cotton is used, it is necessary to in his morals. The time of his death is uncertain. His works, of which the best edition appeared at Florence (3 vols., 1763), bear the marks of a lively, satirical, licentions mind; they are partly in verse and partly in prose, and are celchrated for their purity of style, on which account they are often cited by the Crusca. Among them are two comedies, I Lucidi and La Trinuncia, an imitation of the Golden Ass of Apuleius, eight Novelle, and a Dialogue on the Beauty of Women, &c.

reman up occurs out to a regular plan. It twenty-six miles from the Atlantic, in an was formerly the imperial city; for this reactive to the southern count; but since the fix grand 18 N; population, 81,739. It is one of tribuials were transferred to Perking, it the largest and richest commercial cities has been called Kang sping in all the in France. Its old rampers have been public acts. Namking has lost much of demolished, and it is how connected with its ancient plance, he vestige of which is extent and beauty; it has 20 squares, how to be seen; an observatory at present. If churches, and, meny handsome building and other support magnificant plance, tunds of the emperiment, and other support magnificants are observatory, at present.

the various judicial and executive offices, mostly a joint property to this day, ala commercial chamber, a commercial trithough the number of shares has increased
bunal, a lyceum, a medical and anatomical
to mostly concerned in the whale fishery
ry (30,000 volumes), a picture gallery, and, and the seamen are the most skilful, and
other scientific and literary establishments.

adventurous in the world. Their tradeand the seamen are the most skilful and
other scientific and literary establishments. The manufactures are extensive and in suffered greatly by the late war, and by creasing; cloths, some goods, cutlery, the war of the revolution. It has since printed linear, hats leather, cordage, iron been more flourishing, and the spermacet cables, earthen were, glass, spirituous works are very extensive. The port of liquors, are among the principal articles. Nannaket is on the north-west side of produced. Ship-building is carried on to the island, and has a very good harbon, a considerable extent. The sugar refineries. Nantucket contains two banks, two inare numerous. Its commerce with Afrisurance offices, and seven houses of pubca, the American and Indian colonies; and lic worship. The population in 1820, was
all parts of Europe, is active and impor7265; in 1830, 7202. The amount of
tant. Its inhabitants are also engaged in shipping, in 1820, was 28,512 tons. Eduthe cod and other fisheries. Ships of above ninety tons unload at Paimboeuf, a village twenty miles below Nantes. In 1824, 2963 vessels entered the port, of has been destitute of indigenous trees, which 352 were engaged in the fisheries, and few are cultivated. A great part of and 2392 in the coasting trade. Henry IV here issued the edict called from this city, granting the Protestants the free exercise of their religion, in 1598. (See Huguenots.) Louis XIV revoked it in 1685. Nantes suffered much during the revolution, by the war of the Verdice, carried on under its gates, by the atrocicarried on under its gates, by the atrocities (Marker, (Greek vann, a grove); the ties (Moyades and republican marriages) nymphs of woods. (See Mymphs.) of the infamous Carrier (q. v.), and by the interruption of its commerce. Before the conquest of Gaul by the Romans, it was the capital of the Namneti or Nanneti. It was afterwards, with Rennes, the residence of the dukes of Brittany (q, v.), and was annexed to France by the marriage of Loui XII (q. v.) with Anne of Brittany.

NANTUCKET; an, island of Massachusetts, south of the peninsula of cape Cod, from which it is distant about 20 miles, It is about 120 miles south-south-east of Boston. The island is 15 miles fong, and its widest part is 11 miles; lat 41° 13" to Boston. '41° 22' N.; lon. 69° 56' to 70° 13' W.: The town of Sherburne formerly compre-. hended the whole island; but this name is now out of use. The island, fown and county of Nantucket have the saule limits; but the county of Dukes is associated with it for several political purposes. A great part of the inhabitants are of the denomination of Friends, or Quakers. The land is mostly held in common. Little attention is paid to agriculture; and the sheep "and cows of all the inhabitions feed in one great pesture. The right of the tio. He also made several improvements island was originally granted by Williams, in spherical inconomictry, and was regardered Storling; to Thomas Mayhew, and ed by the celebrated Kepler as one of the conveyed by him to him proprietors, who, i greatest man of the age. The last publication of the age. The last publication of the age.

cation is well attended to, and the habits. of the people are generally industrious and moral. For many years, Nantucket, has been destitute of indigenous trees, the soil is sandy and unproductive.

NANTUCKET SHOAL; a dangerous sandy shoal, south-east of Nantucket island, about forty or fifty miles long. Its breadth is various, and the shoal seems to be longer and broader in some years than in others. Many vessels are wrecked on it.

NAPHTHA. (See Bitumen.)

NAPHTHADIRE. (See Appendix, end of is volume.)

this volume.) Napier, of Nepes, John, baron of Marchiston, a distinguished mathematician, was horn in Scotland, in 1550, and educated at the university of St. Andrews. after which he travelled, and, on his return to Scotland, devoted himself to the cultivation of science and literature. Being much attached to astronomy and spherical geometry, he wished to find out a method of calculating triangles, sines, tangents, &c., shorter than the usual one. To the exertions arising out of this desire is to be, attributed his admirable invention of logarithms, and the actual construction of a large table of numbers in arithmetical progression, in correspondence with another set in geometrical pro-gression; the property of which is, that the addition of the former answers to the multiplication of the latter. (See Logarithms:) The result of these important labors he published in 1614, under the tide of Logarithmorum Canonis Descrip divided it into 27 shares in 1659. It is cation, which appeared in 1616 was his

Rabiologius seu Numerationis per Virgy, las, containing an explanation of the use of his relebrated Bones or Rada, with several other ingenious modes of calculation. He died at Manchester, April 3, 1617, in the sixty-eighth year of his age. Lord Napier was also author of a Plain Discovery of the Revelation of St. John (1593), and of a letter to Anthony Recon. (1593); and of a letter to Anthony Bacon, enutled Secret Inventions. (See his Life, by ford Buchan.)

Sicilies, in the Terra di Lavoro; lat. 40° 50' N., lon. 140 15' E., with 351,754 inhabitants, exclusive of foreigners. Antiquity gave it the title of Otiosa; at present, notwithstanding history records 40. appellation of Fidelissima. Its situation, population and weakh, entitle it to rank among the first cities of the world. Splendidly situated on the margin of a majestic bay, from which the islands Capri and menaced, on the right, by Vesuvius; on the left gently sinking into the arms of the Pausilippo,—it seems to revel in the bless-·The ancients knew how to appreciate the enchantments of this region, and fables told of a temple and grave of a Siren, by name Parthenope, (from which is derived its ancient name), situated here; but the fable and the name only denote the charms of this Eldorado. The Neapolitan is still proud of his country; he calls it a piece of heaven fallen upon the earth, or exclaims, with patriotic ardor, "See Naples and die (" Vedi Napoli e poi muori")! And, indeed, few regions possess so many advantages. The air is mild, balmy and salubrious; the heat of summer, except when the sirocco blows, is tempered by the cooling influences of fruit trees. Above 350,000 people throng

of men, who are either pursuing their business, or are idly assembled around tha booth of a pulcinello, or around a jug-gler or ministrel, and improvvisatore. The inshionable world, especially in the evenring, promenade in superb equipages the streets Stn. Lucia and Chiaja, which stretch along the sea; the last is adorned with stately palaces, among which is the with stately palaces, among which is the Villa Reale, a royal garden, lying on the edge of the sea, and containing the celebrated group of the Farnese Bull. The NAPLES (Napoli); capital and royal brated group of the Farnese Bull. The residence of the kingdom of the Two prospect over the bay, to Vesuvius and the coasts of Sorrento, is unique. But it is only nature and the activity of its present, with the various memorials of its past existence, that makes Naples and its environs so enchanting. The reflecting travrebellions by the Neapolitans, it bears the eller, after having contemplated, in Florence and Rome, the wonders of art, and the monuments of proud times that are gone, -great even in their ruins, -finds in ... Naples little to gratify, and much to offend his taste for the beauties of art. The lux-Ischia rise in bold outline; overlooked and uriance of nature seems to have been communicated to the style of art, and given it a character of exaggeration. This given it a character of exaggeration. This is true of the architecture, with the excepings which Heaven pours upon the happy tion of the office of finance, in the street ... called Toledo. The edifices of importance in Naples betray bad taste, in excess of ornament and unsuitable additions, or bear the stamp of insignificance in their baldness and uniformity. Statuary and painting are in no better condition. has been more successfully cultivated. Those ornaments of Rome—obelisks and fountains—appear here only in miserable... imitations. Even the public inscriptions, particularly those of the time of the Spanish dominion, are written in a style of Oriental bombast. Among the 122 churches (none of which are distinguished for their architecture), the 130 chapels, and 149 monasteries, that of St. Januarius, or the the sea, whose azure mirror attracts and cathedral, is the principal. It was built delights the eye, while its bosom affords at in 1299, from the designs of Niccolo Pisabounteous variety of fish; the fields are no; but the Neapolitans have endeavored decked with grain and vines, which wind to destroy, as much as possible, its Gothic prepared by around the class and noble character. The body of the spint reposes in a subterranean chapel, under the cheir. the streets of the city, in which the bustle : His blood is kept in the splendid chapel the street of the city, in which the bustle. His blood is kept in the splendid chapel ceased not. By night or day. The most of the Treasure, adorned by four altarpped and the passenger must be cautious to somest church in Naples; at least, it has avoid being rin over by the curricol, or one-house vehicles, which dare by with anneaning ornament. The church the rapidity of ightning. The bartons of the rich convent of S. Chima resemble, which however, is not target always full Ciono. S. Domenico a birds. S. Filippe all the said the

Meri, rich in marole and paintings; S. Passitutions is above 60. Among them are ola Maggiore shows, on its front, the retwo large however, sick of all kinds are mains of an ancient temple of Castor and (where, however, sick of all kinds are Pollux; S. Apostoli is admired; small, received) and Della Santissina Annuabut hallowed by the tomb of Sannazzaro, right which is very rich, and received and is the church Sta-Maria del Parto in Meri provides for foundings, pentiant females; gellina, founded by him. The Carthusian &c. There are five other hospitals, many monastery S. Martino, situated on a hill, religious fiaternities and apartial conserva-Meri, rich in marble and paintings; S. Pamains of an ancient temple of Castor and monastery S. Martino, situated on a hill, under the castle of S. Emod, enjoys a most delightful prospect, and is, at present the barnets of the Invalids. The whole squeture is superb, and the charelf is ornamented with peculiar richness. Above the greatest buildings of the kind, But the monastery is situated the castle of S. Ermo, which commands the whole S. Ermo, which commands the whole abode in Naples, and amusement is the city, and, with its cannon, checks the violences of the lazzaroni (q, v,), of whom is no want of entertainment—pulcinellos, there are about 30,000. Naples is also music, oranges, macaroni, and room to fortified against external attacks, especially sleep. For the better classes, there are by way of the sea; for to the east lies they four theatres, of which the largest, S. Car-"Castello Nuovo, and, to the west, the Cas- lo, was burned in 1816, but has been tello del Uovo (so called from its oval shape) splendidly rebuilt. Besides this theatre, extends, on a rock, into the sea." Among there are the Teatro Nuovo, de' Fiorentithe palaces, the royal palace is distin-ni, and S. Carlino. In respect to music guished above the rest for its architecture; and representation, they hardly reach metho place before it is one of the greatest diocrity; but the ballet is magnificent. ornaments of Naples. Another royal pal- The nobles are opulent and fond of paace at Capo di Monti, is unfinished, but rade; the citizens are thriving; and the contains many paintings, and other works. roys of Naples, La Vicaria, has been appropriated to the accommodation of several tribunals, and, in part, converted into prisons. Among the other palaces are the Mandalone, Francavilla, Gravina, Tarsia, which last has a considerable library, open to the public. The most important collections in the arts and sciences are. contained in the building of the academy Degli Studi (Muscum Bourbon), the lower apartments of which are allowed to ancient statues, of which we shall here mention only the Farnese Hercules, the Farnese Flora, the equestrian statues of the two Isabuses, the Venus Endarrayor (muz. the situation of the city, its commerce belles fesses), and an excellent Aristides, might be extensive. The bank of the belles fesses), and an excellent Aristides. The second floor contains a valuable collection of Etruscan vases, a gallery of paintings, and the royal library. The university founded by Frederic II, in 1224. is of some consequence as a building, but maturity. In literary cultivation, the Neaof little note as a place of education. It contains several good collections; for in-

religious fraternities, and several conservatories, which last were long famous as the esemination of music for all Europe. The Albergo dei Poveri, with a school of mutual instruction for 400 children, is one of pleasure, not serious business, has its lowest class (the lazzaroni) are, in general, The ancient residence of the vice- so temperate that, from the cheapness of provisions, they can live with the least pittance, got by work or begging, and reserve something for the divertiment on the mole. and, if they have no other shelter, trust to the mildness of the climate, and spend the night under the portico of a palace or a church. Compared with the number of inhabitants, the manufactures are unimportant; the artisans have little skill. furniture made in Naples is clumsy. best jewellers, tailors and slice-makers are foreigners; the best traiteurs, Milanese; and the only circulating library was set up, s few years ago, by a Frenchman. From Tyro Sicilies has a capital of 1,000,000: ducats. Female beauty is rare in Naples but the men are vigorous and well formed, especially at the age of politans are altogether behind the other Italians, although they have many famous stance, a mineralogical cabinet. The bonames, Ameng the scholars of the nine-mical garden is gradually implying teenth century, some heaplitane are distributed is also an observatory, a foral midd, dinguished, as Fiazzi, Cuoso (author of a ical college, a military school, a paral college, an academy of agriculture, manufact the Viaggs di Platone in Ralia), the pripase three and arts, a college for the instruction of S. Siorgio (an infiquarian and post) of Chinese and Japanese youth, two less this duke of Vennignana (a magic foet), at colleges, Sci., and a soyal decision of The inwers, 4000, in number (callangue, sciences. The number of benevolent in places, or draw-last, hold a great pertion of the real estate in their hands, in congest of the rocks lies the Solfatara (Forum Vulquence of the number and length of the cans, Campi Phlegrai), a very remarkable length of the cans, Campi Phlegrai), a very remarkable length in the solfatara (Forum Vulquence of the number and length of the cans, Campi Phlegrai), a very remarkable length in the solfatara (Forum Vulquence of the length of length of the length of the length of the length of length of the length of length of the length of length that of other great cities; and the love of

La jerra molle, e Bela, e dilettora, Simili a se gli aptillor produce: "Lasso's Ger, Lib. 1. 62;

ders of nature, art, and innumerable remains of antiquity. On the west side of. The laurel, which once flourished there, but which had to surrender its foliage to every traveller, is gone. Following the road through the grotto of Pausilippo, we come to the lake of Agnano, which is enclosed in a picture que manner by mountains, of which the one on which is situthe highest. The prespect from this emimence extends over the whole of Campaina Felix, far out over the islands and sea, and is incontestably one of the richest and most delightful in the world. The lake of " Ageno, has the property of boiling up in some places, but is not however, hot. In the summer, when all the hemp of the neighborhood is rotted in the lake, the air is extremely unhealthy. On its banks are the sudatories, or vapor-baths of S. Ger-

reous vapors issue. The deposits of the idleness and pleasure has its foundation native sulphur, in various colors, on the and excuse in the nature of the climate. wild rocks, increase the terrific appearance of this region. On leaving it, and turning towards Pozzuoli, all the charms of southern flowers, and the prospect of the sea, greet the eye. We approach Poz-The environs of Naples are rich in won- zuoli over the remains of an ancient road, admiring, on the way, the relics of former splendor, particularly the ruins of a Piscithe city is the ridge of the Pausilippo. It no (commonly called a labyrinth), of a is said to owe its name to the effect of its great amphitheatre, and of the therme, or beauty in lalling the sense of grief (and rue warm baths. The old Via Campana is nausins; its language. Its grotto is an arched studded, on both sides, with the picway, which the ancients often mention, turesque ruins of ancient tombs, consisting? but which Alphonso I enlarged, and the mainly of columbaria, and still exhibiting. viceroy Peter of Toledo paved. (See traces of painting. The town of Pozzuoli Pausilippo.) In a garden above it is situ- is situated on a small peninsula, and conated the pretended tomb of Virgil, a co-tains 14,600 inhabitants. The cathedral tumbarium (q. v.) or Roman tomb, with was formerly a temple, dedicated to Auseveral niches, in which once stood urns, gustus, and still contains several antique columns., Of a statue of Tiberius, only a very beautiful pedestal, in the market place, has been preserved. By far the most beautiful monument of Roman antiquity is the ruins of a temple of Jupiter. Serapis, which was built in the reign of, Domitian. Three columns only of Cipolated the monastery of the Camaldoli is lino marble are at present standing, overlooking in saduess a chaos of beautiful fragments. What is called the bridge of Caligula, in the harbor of Pozzuoli, consists of a row of pillars, projecting above. the surface of the water, probably the ruins of a mole. On the other side of the city lies Monte Barbaro (the ancient Mount Gaurus, celebrated for its costly wines), at the foot of which stood Cicero's academy and Cumanum. Next in order is the Monte Nuovo, which was raised in the sudatories or vapor-baths of S. Germano; consisting of vaults, from the floor of which a sulphtireous vapor issues, and in 1538, in the night, by an earthquake, that of which is covered with a stratum bottom of which is covered with a stratum neighboring Lucrise lake, whose oysters and fab were in so high reputs with the generally limiteries a dog, and draw him out, when on the point of suffocating, to recover in the point of suffocating to recover in so high reputs with the general point of suffocating to recover in so high reputs with the ancient gourmands, was almost entirely drained, and it is now a small pond. Not far from this place are the steam baths of Triple (called, also, Staff di Verone), a series of groupes filled with a hot, suffocating to recover in so high reputs with the ancient gourmands.

vicinity lies the Lago di Fusaro, which, in this region of fables, was the Acheron of the ancients (Acherusia Palus of Virgil). and between this and the Avernus is Cuma, displaying but few traces of the; Romanelli's Napoli antica e moderno (1815) ancient Cumse. Between Baiss and the 3 vols.); Nuova Guida di Napoli (1896). village of Bacola (the Bault of the an Naples, Kingdom of (See Sicilies, The cients) is the Piscina Mirabile, the re-'markable remains of an ancient reservoir." and the Cento Camarelle (Hundred Chambers), a suite of 12 or 13 subterranean apartments, probably the foundation of some great edifice. On one side of Baancient city. The Grotta Dragonara is English. The reforms introduced by the now the most important object there. minister Medici were carried into effect canus. On the east side of Naples the road leads to Vesuvius, Herculaneum and Pompeii. (See these articles.) Four miles from Naples lies the village and palace of Portici. The style of the palace is entirely destitute of taste, and it is untenantable. The high-road passes through one of the courts of the castle. Sixteen chambers contain a collection of more than 1500 fresco paintings, and other treasures of antiquity, saved from Herculaneum. At Caseria, Charles III employed Vanvitelli to erect a palace, imposing from its mag-nitude, but, from its mention, resembling a barrack rather than a royal residence. The situation is excellent. The famous The situation is excellent. The famous aqueduct (acquidotto Carolino), which conveys the water from Monte Taburno to Caserta, is unique of its kind, and comparable with the boldest works of the Romens. While the country ground Naples

from the Lucrine lake to lake Avernus, a sislands of Lizzaretto and Nisida, and hear from the Lucrine lake to lake Avernus, a miands of Lazaretto and Nisida, and near round basin, surrounded by woody hills, to Baise and Miseno are Precide and probably the crater of an extinct volcano. Ischia. Vineyards, gardens, groves and Following the road along the bay of Poz-villages alternate in charming variety, in zuoli, we come to Baise (q, v.), highly cell Ischia, in their midst rises majestically to ebrated among the Romans, where there the height of 2356 feet Mt. Eponneo, of the remains of the francous thermas. In the of the beautiful island. The sick derived benefit from the cold mineral springs there. The island of Ischia contains 24,000 inhabitants. Respecting Naples see

Two.

NAPLES AND SICILY, REVOLUTION OF in 1820 and 1821. The civil condition of Italy has contained, for centuries, the seeds of political revolutions. The French revolution matured and unfolded them. cola is situated a lake, called Mare Morto, in Naples and Palermo, new causes of and connected with the sea merely by a discontent arose, which resulted in an narrow strait, on the banks of which the insurrection. The king, before he returnancients placed the Elysian fields. At ed to Naplea, had abelished (July 23, 1814) the castern extremity of the bay of Pozital Control of the constitution established in Sicily by zuoli lies Capo Miseno, the site of an elord Bentink, in 1812, on the model of the constitution of the con Between Cumm and the river Volturno, too slowly to satisfy the people; and the on a large marsh (Lago di Patria), is a Neapolitan officers, who had served under tower, called Torre di Patria, which is Murat, could not endure the humiliations regarded as the sepulchre of Scipio Afri- inflicted on their national pride by the Austrian field-marshal, count Nugent. commander-in-chief of the army of the Two Sicilies, and minister of war. When count Nugent abolished the French organization of the army, and introduced the Austrian; when the police made use of the Calderari (q. v.) to suppress the 'Carbonari; when Medici raised the land tax to 35 per cent. on the income, and, in consequence of the concordate with the pope, reëstablished forty-two monasteries: and the success of the Spanish constitution appeared to favor the plans of the Carbonari, who then numbered 642,000 members, Michael Morelli, lieutenant of a troop of Horse, and the priest Louis Minichini, ventured to commence an insur-rection, with the view of obtaining a representative constitution. July 2, 1820; Morelli induced his squadron to raise the cry, "God, the king, and the constitution ". The insurgents increased, embracing both militia and regular troops, and, a day or ... mans. While the country around Nannas cry, used, me king, and the country around Nannas cry, used, me king, and the country around states. The insurgents increased, embracing both is also adorined with the most beautiful militia and regular troops, and, a day or scenes. A sail in the bay of Naples along, two later, intrenched themselves in Monte the coast, or to the islands, is one of the forts. Several cities, as Salerno, now, greatest pleasures in the whole tour of declared themselves for the cause of the lady. Capri (q. v.), which rivers the constitution, and the soldiers refused to strength is at some distance. More configured mainst their comrades. On the ventual for short excursions are the small system of the 5th, general William Pepel

king, with a petition that he would come finement, were sent out of the city with ply with the wish of the nation. On the out arms, and an amnesty was proclaimed the king issued a preclaimation, de ed. The junta, July 26, summoned depoclaring that he would, within eight days rules from the Sicilian cities, to meet in present the plan of a constitution. At the same time, he appointed a new ministry. the king, within twenty four hours should cerbing the independence of Sicily, and accept the constitution of the Spanish an alliance between the two nations; but, cortes of 1812. Ferdinand I resigned the on information of the events of the 17th the uller ego, who now established a pro-visional junta, to which the lieutenantgeneral Florestan Pepe and baron David the mean time, a civil and guerilla war. Winspeare belonged. W. Pepe, having had broken out in Sicily, because particubeen nominated by the vicar-general commander-in-clifef of the army, entered Naples, on the 9th, at the head of the insurgents, and, on the 13th, the king and crownprince entered the hall of the junta, to swearto observe the Spanish constitution, with certain modifications. Thus the revolution appeared to have been completed without bloodshed.—In Sicily, the revolution took an unexpected direction. When information of the revolution in Naples reached Palermo, the people immediately expressed a wish for the adoption of the Spanish constitution. It happened that, on the festival of St. Rosslin, the commander of the place, general Church, an Englishman, having insulted the popular badges—the yellow cockade and the Sicilian eagle—q tumult ensued. The general saved him-

placed himself at the head of a principal by the municipality and the heads (consoli) of dragoons in Naples, and united with the of the communities, restored order, by insangents, who declared him languaged stituting a guard of citizens, among whom on the following day, another regiment the most distinguished persons, as well as in Naples, which guarded the regiment briefs and monks, performed services and the civic guard, sent depution to the time would compare the persons who had been put in conting with a petition that he would come ed. The junta, July 26, summoned dep-rates from the Sicilian cities, to meet in a national assembly at Palermo; bur Mes-sina and: Catanea refused to send any. The troops were ordered to retire ion . The junta, at the same time, sent deputies. their quarters; but they demanded that to the government at Naples, to treat conan alliance between the two nations; but, toyal power to the crewn-prince as alter all the Sicilians in Naples were declared ego (q, y,), and the latter promised the inprisoners of war, to protect them from the traduction of the Spanish constitution, fury of the people; and it was determined.

The king confirmed this, and promised, to reduce Palermo by force, where the all the Sicilians in Naples were declared his approbation of all the future doings of quitte, though they had concluded to acknowledge king Ferdinand, still insisted on a separate parliament for Sicily. Inthe mean time, a civil and guerilla war. lar towns, as Messiva and Trepani, opposed the cause of independence. After general Florestan Pepe, with 4000 men, had landed in Sicily, Sept. 2, other cities likewise declared for Nuples, and the troops of Palermo were almost every where beaten. About the 20th, a treaty for the submission. of Palermo was concluded; but the monk. Vaglica instigated the people to rebel, removed the junta, and formed another, government, under the administration of the prince of Palermo, so that hostilities recommenced. At length, a capitalation. took place, Oct. 5, according to which, majority of the Sicilians were to settle the question relating to the national parliament, and the Neapolitans took possession of the city and the forts. Florestan Pepe tumultiensued. The ganeral saved himself by flight: all; measures taken for the
self by flight: all; measures taken for the
self by flight: all; measures taken for the
time proclaiming the Spanish constitution,
public rampaility were frittless; the people possessed theirselves, of the arms in
the forts, bruke open the prisons, murder
the prince Catolica, together with other
the prince Catolica, together
the prince Catolica and the time prince Catolica
the prince Catolica and the time pri allowed a general amnesty, at the sume,

suspicion. The monarchies of Europe upon oath was taken. The king, Dec. 5, would not sanction the forcible degradation into receiving the letter of the monarchs tion of the royal power, least of all Austria, which had received a formal assurance of the continuance of monarchy in liament Dec. 7; whereupon, this body the kingdom of the Two Bieilies, and the declared that they could not consent to mon-introduction of the representative his journey, unless it was undertaken to eystem. The powers of the first rank therefore declined receiving the new amthous therefore declined receiving the new amthous the first rank to the first rank therefore declined receiving the new amthous the loth, that his participation, at Laysuspicion. The monarchies of Europe ance of the continuance of monarchy in. non-introduction of the representative system. The powers of the first rank therefore declined receiving the new ambassadors from Naples, and Aug. 23, Austria proscribed the Carbonal of the Lombardo-Venetian kingdom. The forces of the Neapolitan government consisted of 52,000 troops of the line, supported by 219,000 movable national guards, and the standing national guards 'amounted 'to 400,000 men. There were also 10,000 gens d'armes, and men employed to guard at Leghorn, and went through Florence the coasts; but the spirit of the regular to Laybach, where he arrived Jan. 8, 1821. Many troops was not to be depended on. officers left the service, and ill-will arose between the soldiers and cruzeus, which was increased by the privileges granted to 19 and 21, decreed the aboutour of the militia. The administration of the feudal burdens, services, &c. Entails the militia. The administration of the feudal burdens, services, &c. Entails were likewise destroyed. The army contrustful people did not share the enthusi-asm of their orators. The deficit in the revenue made a loan of 1,500,000 ducats from Parisian bankers necessary. The new fabric of government had no firm, foundation to support it in a contest with Austria, which was collecting an army of - 80,000 men, under general baron Frimont, "in Upper Italy. Russia and Prussia made Scommon cause with Austria; and, at the congress of Troppen, where the emperor of Austria arrived Oct. 18, the emperor Alexander Oct. 20, and the king of Prussia Nov. 7, together with their ministers? of state, and several ambassadors, the principle of armed interference in the internal affairs of a state, to support the (so : called) legitimate authority, and the monarchical principle, in Europe, was first Troppan to Berlin, Dec. 21), he found the declared and acknowledged; but the application was determined on at Laybach. (q. v.) At Troppiau, the three monarchs wrote, with their own hands, to the king of Naples, Nov. 20, to invite him to Lay-bach. The king of France also advised him to take this step. The appearance of an English and French squadron, at this time, in the roads before the harbor of Naples, to protect the royal family, in case of preent danger, excited district and alarm in one party, and hope and joy in the other. The hall of the parliament, and the lodges of the Carbonari, resounded, with herois and parricle specifies. There in the present of the carbonari, resounded with herois and parricle specifies. There is present to under opposite bening the carbonary, pone daried to under opposite bening the carbonary. Volunteers collected, and carbonary volunteers collected, and carbonary volunteers. timents. Volunteers collected, and cash regult that an Austrian army was

bach had no other ond than to maintain the Spanish constitution, as sworn to, and to prevent war. The ministers pow resigued, and the king named ethers. The king sailed on the 13th, with his wife, the duches of Floridia, in an English ship of the line, landed, on the 1917 at Leghorn, and went through Florence The crown-prince took the constitutional oath as regent in the parliament, at Na-ples, on the 18th. The parliament, Dec. 19 and 21, decreed the abolition of all situations, the first on the road to Itri, the second in the pass of San Germano, and the third, under general William Pepe, on the heights of Abruzzo. They formed, with the garrisons, a body of 54,000 troops of the line, and from 50 to 60,000 militia national guards and volunteers. A small squadron of frigates and gun-boats was destined to intercept the supplies of the Austrians, in the Adriatic sea. For months before the actual commencement of the war, a general enthusiasm was manifested for liberty and the defence of the country. On the arrival of the king in Laybach, where the emperor of Austria had arrived Jan. 4, and the emperor of Russia, Jan. 7 (the king of Prusia had returned from congress determined to acknowledge nothing which had happened in Naples since July 5. Austria, for the security of its own power in Italy, promised the aid of her proops to carry into effect the secret treaty concluded with the king of the Two Sicilies against the introduction of the representative system. By the treaty of Feb. 2, concluded in the name of the three cours of Vienna, Petersburg and Berlin, an Austrian army was to be tur-nished to the king, to be supported by him, from the time of its passage over the Po, for the space of three years, the pening during which it was to remain it is thoughour. On the 9th, the ministers of the three great powers announced to it

force; and that, should it be driven back. William Pepe now summoned to arms all the volunteers and militia, under their ancient mmes, legions of the Bruttii, Samsembled a body of 150,000 men, badly clothed, indeed, and worse armed. Meanwhile, baron Frimont (q. v.), at the head of an Austrian army, had passed the Po. the two principal roads, on the right through Tuscany and the States of the Church, and on the left through the legations and the Marks, towards Abruz-A small Austrian squadron, under the command of the marquis of Paulucci, lay, prepared to sail, in the harbor of Anco-A proclamation from king Ferdinand, at Laybach, Feb. 23, announced to. the army that he should return to his kingdom, and commanded his subjects and troops to assist the Austrian army, which was advancing to Naples for the protection of the true friends of their country and the faithful subjects of the king. He afterwards proceeded to Flor-The frontiers of Naples were guarded with care: from Gaeta to the Apennines, was protected by Carascosa, who was stationed, with the best troops, on the road from Rome to Naples by San Germano, which was made impassable. William Pepe defended Abruzzo, which was guarded by rocks, defiles and moun-tain streams. The head-quarters were at Aquila. From hence, Pepe, in order to anticipate the attack of the Austrians, sallied forth, Feb. 21, into the Roman territory, occupied Rieti, and pressed forward even to Terni; but a body of 2500 Austrian cavalry from Viterbo having arrived at the bridge of Otricoli before him, he left Terni, and his position at Rieti, with-out firing a shot. Frimont, hereupon, on the 24th, fixed his head-quarters at Foligno. Hence the Austrians spread the royal proclamation of the 23d, and Frimont, at the same time, issued one of his own, declaring to the Neapolitans that he came as a friend, and would exact contributions from no place excepting those where the will of the king was opposed. This dis-solved the slight band of connexion among the militia, already discouraged by want of ammunition, food and clothing, and entire hattalions now dispersed. General

proaching the borders, to take possession; in disorder to the mountains; so that, at of the kingdom, either peaceably, or by ten o'clock in the evening of this day, the Austrians entered Cività Ducale, together a Russian army was ready to support it. with the fugitives. On the same day, a body of 3000 men, advancing from Leonessa, was put to flight near Lugo. These two battles on the 7th, the first and last of nites, &c., and reported that he had as-, the campaign, cost the Austrians hardly sixty men, and decided the revolution. As the Austrians continued the pursuit on the 9th, the Neapolitans evacuated Ve-. lino, and the strong castle of Autrodocco, Feb. 5, and advanced from Bologna, on the important pass at Madonna della Grotte, and that at St. Thomas, so that the Austrians, on the evening of the 10th, occupied Aquila. Thus the war ended, without the army under Carascosa, on the Garigliano, having made a movement. General Pepe could not rally the scattered forces, and he hastened to Naples. The Austrians marched from Abruzzo to surround the right wing of the army on the Garigliano. Carascosa immediately left the stations of Itri, Frondi and San Germano. The militia now began to disperse in this quarter also, so that the regent, who was in Capua, returned to Naples, where fear and confusion prevailed, in consequence of the news received from Abruzzo. All measures for the continuation of the contest were bailled by the rapid advance of the Austrians. At length, parliament, March 12, besought the regent to act as mediator between the nation and the king. The king, however, professed himself unable to give any promises concerning the future, or to stop the march of the Austrians. On the further advance of the Austrians, Carascosa's army dis persed. The militia returned home, and the soldiers of the line joined the Austrian troops. The royal guard alone remained with general Carascosa, and occupied Capua, tearing off the national cockade, and returning to their allegiance. Thereupon the truce requested by Carascosa was signed, March 20, and Capua, as well as the remaining places, were taken possession of by the Austrians, in the name of the king of Sicily. The Carbonari now meditated a mountain and guerilla warfare, when the capitulation of Naples, including the strongholds of Gaeta and Pescara, concluded the 23d, extinguished the last spark of the revolutionary fire. The great lodge of the Carbonari was dissolved. William. Pepe, and the remaining leaders of the insurrection, received permission to leave the country. The parliament separated Pepe, March 7, with 10,000 men, attacked the 24th, and, a few hours after, the Austhe yanguard of the Austrian army, but trian army marched into the capital. The was defeated; whereupon his troops fled regent, with his family, went to Caserin.

The king solemnly entered Naples, May 15. He had already, while at Florence, appointed a provisional government, which now abolished the revolutionary institutions, restored the old forms, dissolved the Neapolitan army, and prosecuted the authors of the insurrection. Divisions of the Austrian army, which occupied Sicily in the beginning of June, first restored quiet in 1822, in the provinces (where Morelli, Lorenzo de' Conciliis and Minichini wished to excite a guerilla war, after the people of both kingdoms had been disarmed. General Joseph Rossarol excited new commotions in Sicily, by proclaiming a republic at Messina; but his plan to do the same in Calabria failed. The troops which he had instigated to revolt submitted to the king, and nothing remained for him, but flight into Spain. Thus ended the revolution. (For further information, see Sicilies, Kingdom of The Two.)

NAPLES YELLOW, a dye, is prepared by exposing lead and antinony with potash to the heat of a reverberatory furnace. It stands tolerably well, but turns black upon the contact of iron. A native pigment of this kind is also obtained from a

species of lava.

NAPOLEON BONAPARTE. (See Appendix, end of this volume.)

NAPOLI DI MALVASIA. (See Monemba-

sia.) Napoli di Romania, or Nauplia; a city and port of the Morea, on the eastern coast of a small peninsula, on the gulf of Nauplia or Argolis. The harbor is capable of accommodating 600 ships. Population, before the revolution, 10,000; at present, about 5000. The Venetians fortified the place so strongly, on Vauban's system, that it can only be reduced by fam-Among the outworks are Palamidi, or Upper fort, which commands the lower town, and Albanitika, or Lower fort, in which are the chief batteries towards the gulf. The only approach by land is a road enclosed by the sea and by rocks, and which is swept by the batteries of Palamidi, and the walls and bastions of the lower town. It was taken possession of. by the Turks in 1715. During the Greek revolution, it was first reduced by the Greeks (1823), and, in April, the first reg-· ular Greek congress was held there, and, in 1824, it became the seat of the gov-Napoli in 1825, but, being repulsed in and favorite genus of plants, belonging to the battle of the mills, abandoned the, the natural family amaryllidea, and to the intended attack. (See Greece, Revolution, hexandria monogynia of Linnaeus. The of.) .

NARBONENSIS. (See Gaul.)

NARBONNE (Narbo-Martius); a city of France, in the department of the Aude, seven miles from the gulf of Lions, with which it is connected by the canal of Narbonne; lat. 43° 11′ N.; lon. 3° 0′ E.; population, 10,097. The streets are narrow and crooked, the houses badly built. The archiepiscopal palace, a sort of fortress, with square towers, and the cathedral, are the most remarkable buildings: are several churches, hospitals, and public . . establishments here. Narbonne was one of the oldest cities of Gaul. In 118, a Roman colony was established there. It. became the capital of Gallia Narbonensis, and was ornamented with splendid buildings, of which some fragments only are still to be seen. Simon de Montfort demolished the walls in the war against the Albigenses: the present walls were built by Francis I. The archbishopric of Narbonne has been merged in that of Tou-. louse.

NARBONNE-LARA, Louis, count de, born at Colorno, a place in the duchy of Parma, in 1755, went to France in 1760, was educated at court, entered the military service, and, in 1785, was colonel of the regiment Augoumois. He was afterwards employed in the war office, and, having embraced the national cause in the revolution, was named commander of the national guards of the department of the Doubs. In 1791, he was appointed maréchal de camp by the assembly, and, at the end of that year, became minister of war. By his influence, three armies were organized, under the command of Rochambeau, Luckner and Lafayette. In 1792, he was removed from his post in the. ministry, and he immediately joined the army. After the 10th of August, he was outlawed, and owed his safety to the friendship of Mme. de Staël. Narbonne retired to England, and used every exertion to save the king. In 1800, he received permission to return to France, and, in 1809, was named general of division. He was, not long after, appointed minister plenipotentiary to the court of Munich, and aid-de-camp of Napoleon. In this capacity, he made the campaign of 1812, was sent ambassador to Vienna, in 1813, and, in the same year, died at Torgau, of which place he had just been appointed commander.

Ilirahim advanced towards - NARCISSUS, or DAFFODIL; a beautiful species are chiefly natives of the south of

Europe, and the neighboring parts of Afri-They have been cultivated. ca and Asia. from remote antiquity, on account of the elegance of their flowers, which vary in color, in the different species, from snowwhite to the deepest yellow, and, besides, give out a delightful fragrance. On account of their easy culture, they are common in the flower-gardens, and have produced numerous varieties. The root is a The leaves are linear, tunicated bulb. about as long as the stem, flat, or slightly canaliculate. The flowers are terminal, solitary, or in a cluster; never upright, but always inclining in one direction. Previous to their expansion, they are contained in a membranous spatha. The corolla is double, the outer envelope consisting of six petaloid divisions, while the inner is cup-shaped, with the margin entire, or variously indented, in the different species. On this cup depends much of the beauty of these flowers; and it disappears on doubling them, which operation, unfortunately, is very easily accomplished.

Narcissus; I. according to mythology, the son of the river-god Cephisus and the nymph Liriope, or, according to a less common account, Liroessa. Tiresias the Seer predicted that he would live to old age, if he should not become acquainted with himself. The surpassing beauty of the young Narcissus excited the love of all the maidens and nymphs. Echo pined away to a mere voice, because her love for him found no return. Being heated one day in the chase, he went to drink from a fountain, and there saw, for the first time, the reflection of his own beauty. Nothing could turn the unhappy youth from this fountain. His raging passion for himself destroyed him; and the compassionate gods transformed him into a yellow-leaved flower, which still bears his name. Such is the account which Ovid gives, in his Metamorphoses (lib. iii, 339)—510). The unhappy fountain, in which Narcissus saw himself, has since been shown at Thespite, in Borotia,—a country where, according to the accounts of travellers, these beautiful flowers still abound. (For another Narcissus, see Mes-

NARD (vabos, nardus) among the Greeks and Romans; a sort of aromatic oil; and also a sort of plant. Pliny mentions several species of the latter. The ancients were accustomed to anoint themselves with nard, at their feasts. In the Scriptures, the use of it is also mentioned (John xii, 3, and Mark xiv, 3), where different substances seem to be intended.

Nardini, Pietro, one of the first violinists of his time, born at Leghorn, in 1725, studied under Tartini at Padua, and soon became the most distinguished pupil of that eminent artist. In 1762, Nardini was placed at the head of the chapel in Stutgard; but returned to Leghorn, in 1767, and composed most of his works after this period. In 1770, he went to Florence, as first violinist in the chapel of the grand-duke of Tuscany, and died in that city, in 1796. His compositions are of a grave character, and must be executed in the spirit of the Tartini school.

NARRAGANSET BAY intersects the state of Rhode Island, and is about twenty-eight miles long, and ten miles broad. Its entrance extends from point Judith, on the west, to Seekonnet rocks, on the east; and the northern termination is at Bullock's point, five miles below Providence. It receives Providence river on the north, and includes the islands of Rhode Island, Canonnicut, Hope, Patience, and several others. It affords capacious harbors, and

is navigable at all seasons.

NARRAGANSETTS; one of the five principal tribes of Indians inhabiting New England at the time of the first settlement of the English colonies. They occupied a portion of the southern part of the country around Rhode Island. A small remnant of them still resides near Charlestown, Rhode Island.

NARROWS, THE; a channel between Long Island and Staten island, connecting New York bay with the Atlantic, nine miles south of New York. The channel is nineteen hundred and five yards wide, and is well defended by forts and batteries.

Narses; a cunuch of the court of the cmperor Justinian I, at Constantinople. The place of his birth is unknown. He so ingratiated himself with the emperor, that he appointed him his chamberlain and private treasurer. In 538, he was placed at the head of an army, destined to support the general Belisarius (q. v.) in the expulsion of the Ostrogoths from Italy; but the dissensions which soon arose between him and Belisarius occasioned his recall. Nevertheless, in 552, he was again sent to Italy, to check the progress of Totila the Goth. After vanquishing Totila, he captured Rome. He also conquered Tejas, whom the Goths had chosen king in the place of Totila, and, in the spring of 554, Bucellinus, the leader of the Alemanni. After Narses had cleared nearly all Italy of the Ostrogoths, and other barbarians, he was appointed governor of the country, and

ruled it fifteen years. During this time. he endeavored to enrich the treasury by all the means in his power, and excited the discontent of the provinces subject to him, who laid their complaints before the emperor Justinian II. Narses was deposed in disgrace, and sought revenge by inviting the Lumbards to invade Italy, which they did in 568, under Alboin, their king. Muratori, and other authors, have doubted whether Narses was concerned in the invasion of the Lombards. After his deposition, he lived in Naples, and died, at an advanced age, at Rome, in 507.

Naruszewicz, Adam Stanislaus, a Polish poet and historian of eminence, born in 1733, was descended from an ancient Lithmanian family, and entered, in 1748, the order of the Jesuits. After a journey through Germany, France and Italy, he was made superintendent of the collegium nobilium of the Jesuits at Warsaw. the abolition of his order, the king engaged him, in 1773, to write a detailed account of the first partition of Poland. His work, of which nothing has ever appeared in print, pleased the king so much, that he encouraged him to write a complete history of Poland. This work is distinguished for its acute criticism, extensive reading, and concise and unadorned style, after the manner of Tacitus, and is the most important that has ever appeared on the history of Poland. Unfortunately it is incomplete. The first volume, intended to embrace the earliest and most uncertain periods, and to be published after the other volumes, never appeared. Naruszewicz left a collection of materials for this work, in three hundred and sixty folio volumes, extracted from public and family archives, and divided according to the years of the reigns of the different kings. They were put into the hands of the famous Thaddaus Czacki, the author of an excellent work on the Lithuanian laws, who undertook to continue the history. As a poet, Naruszewicz distinguished himself in several styles, particularly in the idyl. He also wrote a Polish translation of Tacitus (1775, 4 vols.), in which he has imitated the brevity of the original with surprising success; a Biography of the Lithuanian General John Charles Chodkiewicz (Warsaw, 1805, 2 vols.); Tauryka, or History of the Tartars; and other works. He died of a broken heart, occasioned by the fate of his unhappy country, at Warsaw, 1796, and was lamented, both for his talents, and his noble and philanthropic character.

NARVA, or NARWA; a town and fortress on the west bank of the Narowa, which

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flows from lake Tchudskoi, or Peipus, into the gulf of Finland; population, 3580, principally Germans, mostly engaged in making nails, and sawing timber; lat. 59° . 22' N.; lon. 28° 11' E.; seventy-five miles south-west of St. Petersburg. Its commerce is considerable; the exports are timber and boards, flax, hemp, corn, &c. The fisheries, particularly of salmon, are important. Narva iscelebrated for the great victory gained by Charles XII (q. v.), in its vicinity, over the Russians, in 1700. The latter retook the place by storm, in 1704.

NARVAEZ, Pamphila de, born at Valladolid, came early to America, which was then just discovered, served (1510) under Esquibal, governor of Jamaica, and was afterwards commander of the expedition sent against Cortez by Diego de Velasquez, governor of Cuba. (See Cortez.) He sailed, in 1528, with four hundred men, intending to establish a colony in Florida, discovered the bay of Pensacola. and, having marched into the country, was

never heard of more.

NARWHAL (monodon, I.). This extraordinary marine animal, of the whale tribe, which is also known under the name of sca-unicorn, is of considerable size, attaining the length of from fifty to sixty The narwhal is distinguished from the other whales by having no teeth, propcrly so called, and in being armed with a formidable horn, or defence, projecting from the upper jaw. Sometimes the ani mal is provided with two of these formidable weapons; but, in most cases, it is single, and is attached to the left side. It is about six to ten feet long, spirally striated, of a white color, harder and heavier than ivory. This horn, or tooth, was, at one time, in high repute in Europe, not only as a substitute for ivory, but also for . its supposed medicinal powers, as an antidote against poisons, and in the cure of malignant fevers. From the accounts of voyagers, it appears that, notwithstanding this weapon of defence, as well as the strength and velocity of the animal, the narwhal is one of the most peaceable inhabitants of the ocean. It is termed by the Greenlanders the forerunner of the whale, as, whenever it makes its appearance, that animal soon follows. Cuvier is of opinion that there is but one species, those recognised by Lacepede and others : being only varieties.

NASEBY; a village in Northamptonshire, England, twelve miles from North-ampton. In 1645, Cromwell entirely de-frated Charles I in the vicinity. (See

Cromwell.)

. Nush, is known to fame as the celebrated population in 1830, 5506. It is very master of fashion in the watering place of Bath in England; and his fortunes are well calculated to point a moral for the place of which he was the hero. He was born in 1674, at Swansea, in Glamorgaushire, and was intended for the law, but entered the army; being disgusted at the discipline and his subordinate rank. he soon forsook it, and took chambers in the Temple. Here he devoted himself. entirely to pleasure and fashion; and when king William visited the Inn, he was chosen master of the pageant with which it was customary to welcome the monarch. So pleased was William with the entertainment, that he offered him tho honor of knighthood; but Nash refused it, saying, "Please your majesty, if you intend to make me a knight, I wish it may be one of your poor knights of Windsor, and then I shall have a fortune at least equal to support my title." In 1704, he was appointed master of the ceremonies at Bath, and immediately instituted a set of regulations as remarkable for their strictness as for their judicious adaptation to the wants and society of the place. While in the pleuitude of his power and popularity, Nash lived in the most splendid style, supporting his expense by a long run of success at the gaming table. His dress was covered with expensive lace, and he wore a large white cocked hat. The chariot in which he rode was drawn by six gray horses, and attended by a long retinue of servant, some on horse, others on foot, while his progress through the streets was made known by a band of French horns and other instruments. His common title was the king of Buth; and his reign continued, with undiminished splendor, for more than fifteen years. His health then began to decline, and his resources grew less plentiful. As the change in his spirits and circumstances became more evident, his former acquaintances gradually forsook him, and he died at the age of 88, in comparative indigence and solitude. He was buried, however, with great magnificence, at the expense of the city; and his epitaph, a neat tribute to his memory, was written by doctor Harrington,

NASHVILLE; a post-town, capital of Davidson county, and seat of government for Tennessee. It is situated on the south side of Cumberland river, 110 miles north of Huntsville, 190 west of Knoxville, 250 "south-west of Lexington, 430 north-east 'Lrunswick; and in the plenum he has ster north from Natchez, 727 from Wash- two votes, and the 14th scut. The pres-

NASH, Richard, commonly called Beau ington; lon. 87° 8' W.; lat. 35° 45' N.; pleasantly situated in a somewhat elevated tract of country, is regularly laid out, and is much the largest town in the state. It contains a court-house, a jail, a markethouse, a branch bank of the United States, the state bank, the respectable private bank of "Yeutman, Woods and Co.," a valuable public library, and houses of public worship for Presbyterians, Methodists and Baptists. It is a thriving and wealthy town. 'The Cumberland is navigable, nine months in the year; for vessels of thirty or forty tons; and at some seasons, for those of 400 tons. Steam-boats come from New Orleans to this place. A large and well built state penitentiary, of stone; has been erected near the city. It is 310 feet long, and 50 wide, and three stories high. It has cells for 200 convicts. The university of Nashville was incorporated in 1806, and a building was creeted, ninety feet long and three stories high. It did not, however, go into operation for several years. It has an excellent chemical apparatus, a mineralogical cabinet containing 10,000 specimens, a museum of natural history, a library of 2500 volumes, and 95 students. The number of alumni (in 1831) is 93. The students' libraries contain 750 volumes. The Nashville female academy is a very respectable institution, with 135 pupils.
NASSAIRIANS. (See Nosairians.)

Nassau; a sovereign duchy of the German empire, bordering on the Prussian province of the Lower Rhine. Hesso-Darmstadt and Frankfort. The Rhine runs along its southern border, and roceives the Lahn from the duchy. The superficial area is 1759 square miles, with a population of 320,470, of whom a little more than one half are, Protestants. The court and about one third of the people are Calvinists; but since 1817, the Lutherans and Calvinists have been united under the title of the Evangelical Christian church. The face of the country is rather uneven; the soil is fertile. Hochheim, Rüdesheim, Johannisberg, Marcusbrunnen, Asmanshausen, &c., yield the finest Rhenish wines. There are mineral springs at Wiesbaden (the capital), Niederselters, Ems, Schlangenbad, Geilban, &c. Tho revenue of the duchy is estimated at 1,810,000 guilders; the debt at 5,000,000: the contingent to the army of the confederacy is 3028 men. The duke has the 13th vote in the diet, with the duke of

ent duke of Nassau, William (born 1792), resides in Wiesbaden, and in the beautiful castle Biberich. The estates, by the constitution of 1815, are composed of two chambers-that of the nobles, consisting of the princes of the blood, six hereditary. members, and six members elected by the nobility, and that of the deputies of the country, twenty-two in number. founder of the house of Nassau appears to have been Otho of Laurenburg, brother of Conrad I (in the tenth century). His descendants afterwards took the name of Nassau, from a castle of that name. In 1255, two lines were formed, that of Walram, or the elder line, and that of Otho. From the former is descended the present ducal house of Nassau, which received the ducal title from the confederacy of the Rhine, which it helped to establish, in 1806. From the younger line is descended the reigning house of Holland, on of Orange-Nassau. (See Netherlands.)

NATCHEZ, a city of Mississippi, and much the largest town of the state, is romantically situated on the east bank of the river, on a very high bluff, about 280 miles above New Orleans; lat. 31° 34' N.; lon. 91° 25′ W. It is about 660 miles below the mouth of the Ohio; 840 below St. Louis; 1613 below Pittsburg; 150 by land north-west of New Orleans; 430 southwest by south from Nashville; and 1260 from Washington. Its population, in 1826, was 2184, of whom 856 were slaves; in 1830, 2790. Natchez is the principal town in this region for the shipment of cotton to New Orleans; and, at the proper season, the streets are almost barricadoed with order of cotton. The river business is transacted in that part of the town called the "landing," or "under the hill." This is "a repulsive place," says Mr. Flint, "and unhappily but too often the resort of all that is vile, from the upper and lower country." Great numbers of boats are always lying here; and the idle and vicious find such accommodations as they desire at the landing. There are, however, sevral respectable traders in this part of the town. "The upper town is situated on a bluff about 300 feet above the usual level of the river. It has a good view of the cultivated margin on the opposite bank of the river, in Concordia, and the eye ranges over a vast extent of cypress swamps in the same direction. On the eastern side, the country has a very beautiful, undulating surface, covered with lofty trees, or a rich growth of maize and ry of the Natchez), and the offenders were cotton. The forests here have mostly an left unpunished. The consequence was open appearance, except where the trees a war, which was, however, terminated

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are dressed with the long moss. They .. abound with beautiful flowers, and are not yet destitute of a variety of game. Grape vines of remarkable size hang in great numbers from the wide-spreading branches of the noblest forest trees, and the ever-green mistletoe is seen most when the proper foliage of the trees has fallen. The town itself, in the autumn and winter, presents a scene of great animation; but in the summer, especially in sickly seasons, little business is trans-acted. The streets are broad; many of the buildings are in very good style; and the whole has the appearance of cleanliness, comfort and opulence. There is respectable society; considerable attention is paid to literature; and the people are distinguished for their hospitality. There is a Presbyterian, an Episcopal, a Catholic, a Baptist and a Methodist church: and far more attention is paid to religious institutions than in most of our southern cities. Notwithstanding the elevated sit-uation and cleanliness of the city, and the apparent purity of its atmosphere, it has often been visited with the yellow fever. This fact accounts for the changing character and slow increase of the popula-tion. The Bank of the State of Mississippi, a United States' Branch Bank, and the Planter's Bank, are at Natchez. The first has a capital of \$1,000,000, and the last of \$3,000,000.

NATCHEZ; once a powerful tribe of Indians, residing on the eastern side of the Mississippi, in the western part of the state of the same name, whose melancholy fate has derived a new interest from the muse of Châteanbriand. According to their own traditions, the Natchez had emigrated from the south, and their manners and opinions resembled, in many points, those of the civilized tribes of that part of the country. Inhabiting a delightful country, under a mild climate, they were a polished people, in comparison with their savage neighbors. They had laws, an established worship, a temple dedicated to the Great Spirit, on the altar of which burned a perpetual fire, and chiefs who derived their origin from the sun. They had treated the French colonists with great kindness, and had been courted by them on account of their power. (See Louisiana.) A quarrel having token place between a French soldier and an Indian, the latter was shot by the garrison of fort Rosalie (a French post in the territo-

Indian chiefs. Soon afterwards (1723), French and English. French troops were secretly introduced into the settlement, and great numbers of the unsuspecting Natchez massacred. this outrage was added another, which stung the Indians to madness: the French selected, as a site for a town, a spot (two miles from the present town of Natchez) occupied by a large and ancient Indian village, and ordered the huts of the natives to be removed. The latter formed a plan of vengeance: they attacked the fort by surprise, and put to death the garrison. They also destroyed all the French settlements in that part of the country. A powerful force was sent against them, and, unable to resist it, they retired si-lently in the night, crossed the Mississippi, and fortified themselves on the Red river, not far from Natchitoches. Pursued thither, they attempted to cut their way through the enemy; the greater part of them fell in the attempt; the males who survived were sold, as slaves, in St. Domingo; the women were enslaved at home.

Thus perished the tribe of the Natchez. NATCHITOCRES (commonly pronounced Nackitosh); a town of Louisiana, on Red river, about 280 miles, by the course of the river, above its entrance into the Mississippi, and half that distance by land. It is about 60 miles above Alexandria, and 50 miles cast of the Sabme river, which separates Louisiana from Mexico; and, being at the head of steam-boat navigation, on this great river, and the emporium of the trade between the interior of Mexico and the Mississippi valley, it must almost necessarily become a place of great size and opulence. It is beautifully situated, on the south-west bank of the river, and extends back to the Pine Bluffs, on which some beautiful houses are already erected. Lat. 31° 46' N.; lon. 93° 10' W.; population, in 1818, about 600, exclusive of the garrison of fort Claiborne. It is gradually increasing, but we know not its present size. The trade between the Mexican states and Louisiana centres here. Bars of silver, horses and mules, from the Mexicans, are exchanged for manufactured goods, groceries, spirits and tobacco. This town was established more than a hundred years ago. The people are Americans, French, Spaniards, Indians, and mixtures of these races. There are many respectable furnilies, and the wealthy planters have houses in the town, for the sake of society. The people are very fond of balls and dancing. It is the seat of the courts of justice for Natchitoches

by the influence of one of the principal county, and has a weekly newspaper, in

NATIONAL ASSEMBLY. (See France.) NATIONAL CONVENTION. (See France.) NATIONAL BANKRUPTCY. (See Public

Delt.) NATIONAL DEBT. (See Public Debt.) NATIONAL DOMAINS (biens nationaux): the name given to the church lands which. . during the French revolution of the last century, were declared the property of the nation, and sold as such. The lands of . emigrants, and the crown lands, were also declared national domains. The national domains were created by several decrees, of the national assembly, occasioned by .financial embarrassments. The king sanctioned a decree of the national assembly, of Nov. 2, 1789, declaring the church lands (estimated at over 3,000,000,000 of livres) at the disposal of the nation; and a decee of Dec. 19, 1789, converting the crown lands, with the exception of nine residences, into national domains. Auother haw authorized the sale of this public property, to the amount of 100,000,000, and ordered the issue of assignats (q. v.) to that amount, which, on Mirabeau's motion (April 17, 1790), were made a circulating medium. Not long before (February 13), the national domains were increased by the suppression of the monasteries, and, March 18 of the same year, it was decreed that a certain amount should be sold to each municipality-an important decree, which attached all the cities and towns to the new order of things. Finally (before Necker's resignation), June 29, all the national domains, except the crown lands (see Domains) and forests, were declared alienable. At the same time, the amount of the assignats was increased (Sept. 22, 1790) to 1,200,000,000, and gradually rose to nearly 40,000,000,000 of livres (in February, 1796). This policy made most of the purchasers of the national domains zealous supporters of the revolution. But fluctuations in the value of the assignats, and great speculations in them, were the consequences of the great issue, increased by the insecure tenure of the confiscated estates of the emigrants, which had been added to the national domains by a law of July 27, 1792. In the western and southern departments, the purchase of these estates was dangerous; erasures of names from the emigrant lists were made, and those who returned received back such of their property as had not been sold. The original purchasers of national domains were, therefore, desirous to sell them again, and only the

third or fourth holder considered his title secure. On the same account, they were divided and sold in parcels. Napoleon's méasures, in respect to the national domains created under him, are related in When Louis XVIII the article Domains. published the constitutional charter, in 1814, he declared (in article 9), Toutes les propriétés sont inviolables, sans aucune exception, de celles qu'on appelle nationales. la loi ne mellant aucune différence entre The unsold national domains were, however, restored to the emigrants, and, as they claimed the entire restitution of their estates, all the national domains began to be considered insecure, so that at least three millions of proprietors felt their property in danger-a circumstance which had no little influence on the event of March 20, 1815. It was fortunate for France that the chamber of 1816, &c., and the ministry of Louis XVIII, recognised the rights of the holders of the national domains in the spirit of the charter. Since that time, the national domains have been separated from the crown lands, and the sale of the former has been permitted only in special cases, by particular laws; for instance, in order to pay the sum exacted by the allies, and to create an entailed estate for the duke De Richelieu. (For the indemnification of the emigrants, see Emigrants, and France; for the national domains of the U. States, see Public Lands.)

NATIONAL GALLERY. This splendid English collection comprises the greater part of the pictures which belonged to the late Mr. Angerstein. They were purchased, by order of George IV, for forty thousand pounds, as the foundation of a national gallery, and were first exhibited to the public in May, 1824. Amongst them are the Village Festival, by Wilkie; Murriage à la Mode, by Hogarth; Christ raising Lazarus, by Schustian del Piombo; the Woman taken in Adultery, by Rembrandt; Julius II, by Raphael; and beautiful specimens of Cuyp, Vandyck, Annibal Caracci, Claude, G. Poussin, Rubens, Titian, Coreggio, N. Poussin, Domenichino, and V. lasquez.

NATIONAL GUARDS. (See Guards.) NATIONAL INSTITUTE. (See Institute, National.)

NATIONS, LAW OF. By national law, or, as it is more commonly called, the law of nations, we understand that portion of public law which concerns the rights, duties and obligations of nations. This is a very comprehensive subject, and can only be glanced at in this place, since a full and accurate examination would occupy vol-

umes. Nations are considered as moral persons, having duties to perform, as well as rights to enforce, and are bound to the observance of the great principles of justice, which are applicable to the relations which subsist between each nation and its own subjects, and between each nation . and every other nation. Vattel has defined the law of nations to be the science which teaches the rights subsisting-between nations or states, and the obligations correspondent to those rights. But it is obvious that he here speaks of one branch only of that law, and that he altogether passes by another most importantbrunch, namely, the rights and obligations which subsist between the nation and its own subjects. It would be more correct, therefore, to divide it into two great leading heads, namely, the internal law of nations, or that which arises from the relations between the sovereign and the people, and the external law of nations, or that which arises from the relations between different nations. 'The former may be properly called the public law of the state. whether it arise from the principles of natural justice, or from positive institution. The latter is appropriately called international law, and is again divisible into two heads, the one which regulates the rights. intercourse and obligations of nations, as such, with each other; the other, which regulates the rights and obligations more immediately belonging to their respective subjects. Thus the rights and duties of ambassadors belong to that head which respects the nation in its sovereign capacity; and the rights of the subjects of one nation to property situated within the territory of another nation, belong to the latter head. The former is frequently denominated the public law of nations, and the latter the private law of nations. The general foundation on which the law of nations rests, is the law of nature, or that system of principles which is deduced by human reason from the nature of man, and his social obligations, for the direction and government of human societies. Not . . that every principle of natural law is applicable to nations, in the same way and manner as it is to individuals; but that nations, being moral persons, are bound by the same principles, so far as they admit of a just application to them. And among Christian nations, these principles are illustrated and enforced by the superior sanctions and doctrines of divine revelation. It is obvious, that the principles of natural law are not, of themselves, sufficient to regulate, in a fixed and definitive

manner, all the complicated relations of society; for, in many cases, no rule is, or can be, furnished by human reason, which is, necessarily, the sole and true rule to govern them. There are many cases in which the rule is a matter of indifference. or of convenience, or of arbitrary regulation; and every nation is free to adopt or reject the rule which is framed by another. There are, again, other cases, in which a nation may justly yield up its own strict rights, or modify them, without any departure from the principles of justice, or moral obligation. The law of nations may, therefore, be divided into two great classes of principles, namely, those which arise from natural or universal law, and those which are of mere positive institution. The former is denominated the universal law of nations; the latter, the positive law of nations. And the latter is again divisible into the customary law, or that which arises from the silent consent of nations, as evidenced by general usages and customs, and habits of intercourse; and the conventional law, which arises from express compacts, or treaties between nations, or in a particular state, from the fundamental constitution of such state. We do not propose, in this place, to enter upon any theoretical investigation of the principles of the law of nations, but merely to present a practical summary of the most important of them. Our object is to furnish a guide to the actual state of this branch of public jurisprudence, rather than an exposition of the reasons on which it is founded. In considering this subject, it is our design to treat, first, of the internal law of nations, or that which concerns a nation considered by itself; and, secondly, the external law of nations, or that which concerns its intercourse and relations with other states.

1. Nations considered in themselves .-When any society of men, or body politic, is united for the purposes of government, and for mutual protection, we are accustomed to call such society, or body politic, a state, or nation. To every state, or nation, we ascribe the attributes of sovereignty, independence, and equality with every other. Every nation which governs itself, without dependence upon any foreign power, is deemed a sovereign state. By sovereignty, is meant the absolute right to exercise supreme power, without any responsibility to any superior, except God. This is 6 sovereignty, in its largest sense; and in this view it is despetic and uncontrollable. But it must not be understood that the possession of such an absolute despot-

ic sovereignty, is indispensable to the existence of a nation, or that it is ordinarily conferred, or proper to be conferred, upon its own functionaries. All that is meant is, that it is competent for the people composing any state, or nation, to exercise such power, or to confide it to their public functionaries; and the exercise of it by either cannot, properly, be questioned by any foreign state or government. retically speaking, this absolute sovereignty may be said to be inherent in every nation, as a potential attribute; but, practically speaking, it rarely has any existence, as an actual attribute, in the organization of any government. The forms of government are divisible into three sorts: democracles, or governments by the people; aristocracies, or governments of a select few: and monarchies, or governments of a single head; and each of these may be variously mixed up with the others, so as, to form a complex government, such as a representative democracy, or republic, or a limited monarchy, or a limited aristocracy. In a pure despotism, indeed, all sovereign power is concentrated in the head; but such a government rarely exists; for, in governments usually styled despotic, the customs and institutions of the society, and the habits, and manners, and opinions of the people generally, interpose some indirect checks, and compel the sovereign to yield a practical obedience to some limits prescriked to his prerogatives. If he does not, there is often an ultimate resort of popular or aristocratical power, which, by cutting him off administers an effectual, though sanguinary remedy. In free governments, this despotic sovereignty is a mere residuary power in the people, if it can be said to have any positive existence at all. never is confided to any public functionaries, except for transitory purposes; and it is contrary to the theoretical principles of such governments that it should be intrusted, as a permanent attribute, to the legislative, executive, or judicial departments. Nations, therefore, in a just sense, are deemed sovereign, not so much because they possess the absolute right to exercise, in their actual organization, such . transcendent and despotic authority, but because whatever they do exercise is independent of and uncontrollable by any for-. eign nation. The sovereignty of many nations is, in its actual organization, limited by their own constitutions of government; but, in relation to all foreign states, the sovereignty is, nevertheless, complete and perfect. And a nation may even have a limited connexion with or dependence

upon other nations, and yet retain a general sovereignty, in all other respects, and thus entitle itself to be deemed a sovereign nation, if it still possesses the power to govern itself by its own authority and laws. In respect to each other, then, natious possessed of sovereignty, in the limited sense above stated, are deemed equals, and are entitled to the same general rights and privileges. Relative strength is of no consequence; it neither confers nor abstracts any sovereign power. Relative weakness creates no dependence, and, in a just sense, compels to no sacrifice of national attributes. In respect to its own internal concerns; every nation possesses general and supreme authority. How that authority shall be exercised, and by whom, depends upon the particular constitution of each state, and is subject to the modification and control of the national will, expressed in such manner as the people prescribe. The authority of the nation over all its members is, by the very act of association, deemed, in all that concerns the general welfare of the nation, complete and supreme. All the members are bound to obedience and allegiance; and, in return, the nation is bound to protect and preserve its members. It may be proper, however, to express the rights and duties of a nation in a more exact form than can, it from persons subjected to its authority. be communicated in such general propositions. 1. Every nation possesses full jurisdiction to create, alter, abolish, and regulate its own form of government, in such a manner as to provide, from time to time. for its own safety and happiness. 2. Every n. iou possesses an exclusive jurisdiction, within its territory, over all persons and things therein. 3. Every nation possesses a right to demand the allegiance of all its own subjects, and to bind them by its own laws, whether they are at home or abroad. 4. Every nation has a right to the temporary allegiance and obedience of all persons who are strangers and foreignors, so long as they reside within its territorial lunits. 5. Every nation has a right to exercise jurisdiction, in common with every other nation, upon the high seas, and in all other places not exclusively belonging to some other nation. 6. Every nation has a right to enforce its own regulations upon its own subjects, and upon all other persons sailing under its flag and protection upon the high seas, and to govern its trade thereon, not interfering with the common rights of other nations. 7. Every nation has a right to hold all persons, born within its limits, and not specially

subjects, and bound thereto by natural allegiance. 8. Every nation has a right to naturalize foreigners residing within its territory, at its own pleasure; but such naturalization, cannot impair or destroy the rights of other nations, to whom they may previously owe allegiance. 9. Every nation possesses a supreme legislative, executive and judicial authority, and may confer such portion of these powers upon its public functionaries, for the purposes of its own safety, interest, and Imppiness, as it may deem proper. 10. Every nation has a right to acquire and hold property, as its own public domain, for public purposes. 11. The rights of persons, and the rights of property, within its territory, are subject to the control and regulation of every nation, according to its own constitution and laws. 12. The territory within the limits of every nation, not owned' by any private persons, belongs to the nation, in its sovereign capacity. 13. Every Ination, in virtue of its eminent domain, has, in cases of necessity, and for the publie safety and happiness, a right to dispose of any portion of the wealth or property of its subjects. 14. Every nation possesses the power, in virtue of its sovereignty, to punish all crimes committed against it, and to enforce all civil obligations due to Such are some of the more important. rights of sovereignty, belonging to nations. We may now chumerate some of their duties. 1. Every nation is bound to proteet the rights and possessions of its subjeets against all aggressions. 2. Every nation is bound to prevent its subjects from doing any wrong or injustice to the subjects of other countries. 3. Every nation, in virtue of its obligation to preserve the peace, safety, liberty and happiness of its own subjects, is bound to provide for the enactment of all good and wholesome laws for these purposes; and, especially, to provide for the necessities of the nation itself; to promote agriculture, commerce, manufactures, and all lawful pursuits, which are calculated to relieve the wants, promote the prosperity, or encourage the just enterprise of its subjects. 4. Every nation is bound to provide for the due and regular administration of justice; for the redress of wrongs; for the preservation of civil, political and religious liberty; for the cultivation of picty and sound morals; for the suppression of vice; for public education and instruction; and for all other objects which are essential to the true interests and happiness of the people. exempted by the law of nations, to be its Such, in a general view, are some of the

spect to their internal concerns. - It has been already stated that every nation possesses a right to all territory within its own limits, not belonging to private persons; and it may be added, that, as all such territory is held for the national benefit, it may be alienated, and disposed of, according to the will of the nation. All property, however acquired by the nation, is subject to the like disposition. Thus allthe national revenues arising from taxation, or rents, or other income, or resources, may be applied as the nation deems proper for its own welfare. But there are many things which a nation holds for the public use and benefit, in respect to which all the subjects possess, or may possess, a common right of enjoyment. Thus rivers, lakes, and arms of the sea, within the limits of the territory of a nation, are possessed and owned by the nation, in virtue of its occupation of the adjacent country; and, until alienated, they are held for the common benefit of all the people, and may be used by all the people for the purpose of fishing and navigation. Of the like nature are roads, and highways, and canals, established and supported at the expense of the nation. All these territorial rights and possessions, however, are subject to the municipal regulations of every nation, according to its own choice, and constitution of government.

2. Of Nations, considered in Relation to each other .- The basis, on which all the rights and duties of nations, in their intercourse with each other, rests, is the fundamental maxims, that they are all moral persons, and that each has a perfect equality, in sovereignty and social rights, with every other. They are treated as moral persons possessing a sense of right and wrong, and responsible to the common Creator for a just discharge of all the duties common to the human race. They are bound to do justice, to perform the offices of humanity, and to render mutual assistance to each other, in the same manner, and upon the same principles, that bind individuals to like duties. If there is any difference, nations are under a superior obligation to perform all social duties, because their means are more ex-.. tensive, and their authority more complete, than those of individuals. Hence it is the duty of every nation to succor and assist another, that is suffering by famine, pestilence, or other calumity; to cultivate friendship and good will towards all

more important duties of nations, in re- as may be, an honest and frank intercourse with all others, upon principles of reciprocal benevolence. However imper feetly these duties may, in a practical sense, be performed by nations, they are the clear result of undeniable principles of the law of nature, sanctioned and supported by the positive declarations of Christianity. The other maxim, to which we have alluded, is the perfect equality of nations, whether great or small, maritime or inland, strong or weak. In this respect, they are treatedlike individuals, who, however differing in capacity and strength, are deemed entitled to equal rights and privileges, in the general scale of the human race. In a just sense, then, all nations are of equal rank and dignity, although, by custom and usage, a precedency in mere matters of ceremony and courtesy is often conceded to nations which have a high antiquity, or superior renown, or uncommon power. , The rights and duties of nations, in regard to each other, may be divided into two general heads,-those which belong to a state of peace, and those which belong to a state of war. We shall first treat of those which belong to a state of peace. 1. Every nation is bound to abstain from all interference with the domain of other nations. That domain extends to every thing which a nation is in possession of by a just title, whether it be by purchase, or cession, or conquest, or by a title founded solely on a long possession. In respect to foreign nations, not only the public domain, but all the private property of the subjects of a nation, situated within its limits, is deemed the property of the nation. This right of domain is exclusive; and, consequently, no nation can rightfully exercise any jurisdiction or sovereignty within the territories of another, either over persons or things. If a nation chooses to leave some part of its territory desert and uncultivated, this does not justify any other nation in seizing upon or occupying it. But, where a desert territory, has no owner, there the nation that first discovers or occupies it, is generally allowed to possess a just title to it. But if the territory, when discovered, is occupied by inhabitants, no just right exists to expel or to subdue them, upon any recognised principles of national law. Such inhabitums have just as good a title, founded upon possession, as can be claimed by any other people. 2. Where two nations border on a river, or lake, or arm of the sea, it often becomes a matter others; to abstain from all injury and of dispute how far the limits of each wrong to all others; and to cherish, as far extend, and how far either may exercise

exclusive jurisdiction over such places. principles of comity and general conve-No principles can be laid down, which will embrace all cases of this sort. But as a nation may acquire exclusive dominion in a river, lake, or arm of the sea, some rules have been laid down as guides on this subject. When a nation takes possession of a country bounded by a river, it is considered as appropriating to itself the river also, if there is no adverse possession or appropriation: In such cases, a priority of possession or occupation is generally allowed to give the superior right. If a nation has long enjoyed the exclusive use of such river, lake, or arm of the sea, for navigation, fishing, &c., that is understood to strengthen its title of possession. If no priority of occupation is, or can be established, by either of two nations inhabiting the opposite banks of a river, each is considered as having an equal title; and, in such a case, the right of dominion of each will extend to the middle of the stream of the river (usque ad filum aquæ). Where a nation possesses the territory on both sides of a river, so far as such territory extends, it is deemed to be the owner of the river itself; but other nations, owning, in like manner, above or below, on the same river, may have a right of passage, or other servitude. In respect to the main sea, in former times, several nations laid claims to an exclusive dominion, or, at least, to a preeminence in and over certain parts of it. But the general doctrine now maintained is, that all nations have equal and common rights on the high sea, and they are not bound to admit any superiority there. The sea which washes the coast of a nation, to the extent of a cannot-shot, or a marine league, is now deemed to be a part of the territory of the nation, over which it may, for its own protection, exercise an exclusive jurisdiction, And, in respect to persons subjected to its laws, every nation now claims a right to exercise jurisdiction on the high seas, for the purpose of enforcing, not only the law of nations, but its own municipal regulations. 3. From the exclusive jurisdiction and sovereignty of a nation, within its domain, it follows, that no other nation has a right to punish for crimes committed by its own subjects therein. No foreign nation has a right to pursue any criminal, or fugitive from justice, therein; but its claim, if any, is a mere right to demand him from the nation itself. From this peculiar and exclusive c jurisdiction, which a nation exercises within its own territory, over persons and things, other nations are accustomed, upon VOL. IX. 13

nience, to respect the decisions of the local tribunals, and to recognise the rights generally derived from them. It might otherwise happen that, with every change of domicil, the entire rights of property might be subjected to new litigation; and a judgment, valid where it was rendered, might be set aside by a tribunal having no competency to exercise an appellate jurisdiction. 4. Every nation has a right to regulate its own intercourse and commerce with other nations, not denying them just rights, in such a manner as is most conducive to its own prosperity and interests. It ought not, however, to restrict commerce, which is generally beneficial to all mankind, beyond what a just care of its own interests dictates. And it will not, if it be wise, impose any restrictions upon trade, which tend to a destruction of free commerce, or to create an unjust monopoly. In respect to its conduct towards foreigners, every nation seems under a moral obligation to treat them with respect, kindness, and humanity, during their sojourn within its territories. And though, strictly speaking, no foreigner has any right to claim a permanent domicil, or to exercise his trade or business within its territories, any interference with the ordinary pursuits of such persons is generally deemed a harsh exercise of power. And if a nation allows foreigners to enter into its territory, it is bound to respect their rights, so long as they conduct themselves peaceably; and if, in breach of good faith, it proceeds to punish them vindictively, when they have committed no offence, it is justly responsible for its conduct to the nation to which they belong. Foreigners, however, are bound to obcy the laws of a country, as long as they reside within it, and under its protection. And as they are amonable to its laws, so they buight, in reason, to have the assistance of its courts of justice to vindicate their own The property held by foreigners within a country, according to the laws, ought to be protected in the same manner as that of natives. It is a general rule among nations to regulate the descent, distribution and alienation of immovable property exclusively by the laws of the country wherein it lies. As to movable property, it is now a common custom, and seems most reasonable and just, to allow toreigners the liberty of disposing of it by will, or otherwise, according to the laws of their own country, or of their own permanent domicil. Some governments, in the case of the death of foreigners with

in their territory, have exercised a very barsh right of appropriating the property left by such persons to themselves. But this exercise of right, or rather of power, has been generally discountenanced, in latter times, among civilized nations. The rights of foreigners are, however, so much a matter of municipal regulation and policy, that it is difficult to lay down more than a few very general principles on the subject. 5. How far a nation is bound to concede to others the exercise of any rights, within its own territory, has been a matter of much speculation among writers on the law of nations. It has been often asked, whether a nation has a right to demand, in case of necessity, that another shall supply it with provisions, or allow it to procure necessaries therein; whether a nation may insist upon a right of passage through the territory of another nation, either for persons or merchandise; whether it may claim for its subjects a right to reside in the territories of another nation; whether it may, of right, demand from a nation the free use of a thing, within its territory, which is inexhaustible, and is of innocent use, such as of water. To all such questions there can be little more than a general reply, viz. that it is the duty of every nation to concede to the necessities of others whatever may not incommode itself, or affect its interests, or endanger its peace or prosperity. 6. The intercourse between nations can scarcely be beneficially carried on without the instrumentality of some public agents. They may have disputes to adjust, injuries to redress, rights to ascertain, mutual objects and interests to promote,-all of which may require great deliberation and many conferences. It is obviously impossible for the government of a nation to carry on its negotiations at a distance, without the aid of some public functionaries, who shall represent its sovereignty, and have authority to act in regard to its rights. Hence arises the right of every nation to send and to receive ambassadors, and other public ministers. And this right of embassy, inasmuch as its tendency is to promote justice, harmony, peace, and social virtue, among nations, has always been deemed peculiarly sacred. The law of amhasaulors forms, therefore, a large head in the law of nations; and it is observed with a jealous and scrupulous care by all civilized nations. As representatives of the nation itself, ambassadors, and other public ministers, are exempted from all responsibility to the civil and criminal jurisdiction of the countries to which they

are sent. Their persons are held sacred and inviolable. Their property, and servants, and retinue, enjoy a like privilege. Their houses are deemed, in some sort, asylums; and they have many privileges conceded to them, which do not belong to any other persons in the country where they reside. These rights, and privileges. and immunities, are not, however, to be considered as favors granted to the individual, but as a sovereign claim and public security insisted on by all nations, and refused by none. The peace and safety of all nations are essentially connected with the strict observance of them; and they are rarely infringed, except under circumstances of peculiar aggravation and injury. 7. It is through the medium of ambassadors, and other public ministers, that treaties, conventions, and other compacts between nations, are usually negotiated, thus forming a positive code for the regulation of their mutual rights, duties and interests. In the modern practice of nations, such treaties and compacts are not generally deemed final and conclusive urtil they have been ratified by the respective governments to which the negotiators belong. When made, such treaties possess the highest sanctive and obligatory force. They are, indeed, sometimes violated; but they never can be justly violated, except in cases of great and positive wrongs on the side of the other contracting party, or from extreme necessity, or from a change of circumstances, which renders them wholly inapplicable or unjust. Many rules have been laid down for the interpretation of treaties. But they all resolve . thomselves, ultimately, into one great maxim, which is, that they are to be understood and construed according to their obvious meaning, and the intention of the contracting parties. Treaties may be dissolved in several ways; -- first, by the voluntary assent of the parties; secondly, by a formal dissolution, pronounced by one of the parties, acting upon its own responsibility, in the exercise of sovereign authority; thirdly, by operation of law, as in cases where the contracting parties lose their distinct sovereignty, and become incorporated into a single nation; fourthly, by implication, as when new treaties are formed between the parties upon the same subject, or new alliances are contracted, which are incompatible with existing treaties. 8. As to the modes of terminating disputes between nations. These are various,—by compromise; by mediation, by arbitration; by conferences and con-gresses; by tacit acquiescences in the

claims of the other side; and, lastly, on a failure of all these, by an ultimate resort This resort may be by a limited to arms. or by an unlimited warfare; by a limited warfare, as by retaliation, by reprisals, or other modified redress; by an unlimited warfare, as in cases of general hostilities in a public war. It is obvious, that a resort to arms can be properly had only when all peaceable means of redress have been exhausted, and for causes of an important nature. 2. And this leads us to the consideration of the rights and duties of nations in regard to each other, which belong to a state of war,-First, between the nations at war. The right of declaring war results from the right of a nation to preserve its own existence, its own liberties, and its own essential interests. In a state of nature, men have a right to employ force in self-defence; and, when they enter into society, this right is transferred to the government, and is an incident to sovereignty. 1. What are just causes for entering into war, is a question which has been much discussed by publicists. It is difficult to lay down any general rules on the subject, and nations must be ultimately left to decide for themselves, when the exigency arises. In general, it may be said, that war ought not to be entered into, except for very cogent reasons, as it necessarily involves much personal suffering, and many private as well as public sacrifices. No man can look upon the conflicts of armies and navies, the pillage of cities, the devastation of provinces, and the destruction of property and of life, which it unavoidably involves, without feeling that a deep moral responsibility attaches upon the nation which undertakes it. Defensive wars are necessarily justifiable from the fact, that they involve the existence or safety of the nation and its interests. But offensive wars are of a very different character, and can be justified only in cases of aggravated wrongs, or vital injuries. 2. In respect to the , mode of declaring war. It may be formal, as by a public declaration, or informal, as by actual hostilities. In modern times, nations are accustomed, generally, to make a public declaration, and to justify themselves before the world, by a manifesto of their reasons. 3. The effects of a declaration of war. The first effect is to put all the subjects of each of the nations in a state of hostility to each other. All public and all private social intercourse are suspended between them. They are not at liberty to engage in trade, or commerce, or contract, with each other; and they re-

tain the character of enemics, in whatever country they may be found. In the next place, all the property belonging to each is deemed hostile. If it be personal property, it may be captured as prize; if lands, it may be seized, and confiscated, at the pleasure of the sovereign; if it be merely in debts or stock, it may, in the extreme exercise of the laws of war, be equally liable to confiscation. In general, cach nation restrains the right to make captures, and to carry on hostilities, to such persons as are in public employment, or to such as receive a public commission for this purpose. Mere private warfare is not allowed, except under many restrictions. Thus the usual modes of carrying on war are by armies, navies, and privateers, acting under the immediate authority of the government. 4. But, although the extreme rights of war are thus rigorous and oppressive, there seems no reason to exclude, even between enemies, the common dutics of humanity. While the battle rages, indeed, every thing but slaughter and victory are forgotten. But, as soon as it is over, the conquerors are bound to treat the wounded with kindness, and the prisoners with a decent humanity. And they who knowingly offend, in these cases, are guilty of a gross violation of duty in the eyes of God and man. And there are some things which seem positively pro-hibited from their cruelty and brutal barbarity: such are the violation of female captives, the forturing of prisoners, the poisoning of wells, the use of inhuman instruments of war. 5. In time of war, there is occasionally an intercourse between the belligerents, which should always be held sacred. Thus the granting of passports, and ransom of prisoners and property; the interchange of prisoners by cartels; the temporary suspension of hostilities by truces; the passage of flags of truce; the engaging in treaties of capitulation, in cases of besieged armies or cities,all these are matters which are held in great reverence, and demand the exercise of the utmost good faith. A fortiori, there should be a total absence of all fraud and stratagem, in cases where preliminary negotiations are entered into for the purpose of restoring peace. 6. In respect to captures made in war, they generally course to the benefit of the sovereign, unless he has made some other positive distribution When any conquest of territory of them. is made, the inhabitants immediately pass under the dominion of the conqueror, and are subject to such laws as he chooses to impose upon them. Generally, it is for the

interest, as it certainly is the common policy, of the conqueror to respect the rights of private persons and private property. But in strictness, his power over each is unlimited, unless so far as it may be restrained by articles of capitulation, or by moral or religious obligations. In cases of reconquest, the property, unless previously disposed of, returns to the original owner by the jus postliminii, in like manmer as the restoration of a prisoner of war to his own country reinstates him in his prior rights. 7. There are also certain rights which war confers on the belligerents in respect to neutrals. they have a right to blockade the ports, or besiege the cities, of their enemies, and to interdict all trade by neutrals with them. They have a right, also, to insist that neutrals shall conduct themselves with good faith, and abstain from all interference in the contest by supplying their enemy with things contraband of war. And if neutrals do so interfere, they have a right to punish them, either personally or by a confiscation of the property taken in delicto. And hence arises the incidental right of search of ships on the high seas, for the detection of contraband goods. Secondly, we next come to the consideration of the rights and duties of neutrals. A neutral nation is bound to observe entire impartiality between the belligerents. It is bound to consider the war just on each side, at least to assume it to be so, so far as regards its own conduct. It should do nothing, therefore, which favors one party at the expense of the other; although, if it has previously entered into treaties with one of them, by which it is bound to lend a limited aid, by supplying stores or troops, it is obliged to conform to its treaty obligations. This becomes often a duty full of peril and difficulty, and, in many instances, will involve the neutral in all the embarrassments of, becoming a party to the war; for the other side has a right to treat such interferences as acts of hostility, although, if they are of a very limited extent, they are often silently tolerated. Neutral nations are, strictly speaking, bound to compel their subjects to abstain from every interference in the war, as by carrying contraband goods, serving in the hospile army, furnishing supplies, &c. In practice, however, in cases of contrabund goods, the belligerents content themselves with exercising the right of confiscation; and the neutral nation submits to this as a just and fit remedy, without any com-plaint. Subject to the exceptions above referred to, a neutral has a right to insist

upon carrying on its ordinary commerce, with each of the beligerents, in the same manner as it had been accustomed to do in times of peace. Whether it may carry on a trade with either belligerent in war, which is interdicted in peace, is a point which has given rise to very sharp controversy in modern times, and especially between England and America, the former contending for the restriction to the accustomed trade, the latter insisting upon also carrying on the unaccustomed Whether a neutral nation is bound to allow a passage to the troops of either belligerent through its own territory, is a point often discussed. Strictly speaking. neither party has a right to insist on such a passage; and if it is granted to either, and materially affects the fortune of the war, it is almost always construed as an act of hostility to the other party, and is resented accordingly. A neutral nation has also a right to insist, that no hostilities shall be committed by the belligerents within its territorial limits. The persons and the property of enemies, which are within such limits, are deemed inviolable, and entitled to neutral protection. But the property of an enemy, found on board a neutral ship on the high seas, is deemed good prize, and e converso the property of a neutral, found on board of an enemy's ship, is deemed neutral. The reason for the difference is, that upon land the neutral sovereign has exclusive jurisdiction, within his own territory, over all persons and property within it. But all nations have a common jurisdiction on the high sees to enforce their rights, and the right of search carries with it an incidental jurisdiction over all enemy's property found therein, in the ships of a neutral, This right of search, however, is strictly confined to merchant ships, and is never extended to ships of war, belonging to the nation itself; for in such ships the national sovereignty is exclusive. In general, too, the character of neutral, or enemy, is decided by the fact of domicil. A native born subject of one belligerent, who resides in a neutral country, is treated, at least for the purposes of trade; as a neutral; and, on the other hand, a neutral subject, domiciled in an enemy's country, is treated, for the like purposes, as an enemy. In cases of civil war, the rights and duties of neutrals are not essentially different. Every neutral is bound to abstain from all active interference in the contest, on one side or the other. If the contest gives rise to the establishment of independent governments, formed out of

the severance of the old empire, it is not deemed an act of hostility to recognise each as having a sovereign existence as a nation. But while the contest is dubious, and the affair wears the appearance of a , mere private rebellion, such a recognition would be deemed an active interference to promote the civil war, and therefore would, or at least might, be resented as a departure from the neutral character.-Such is a very general outline of some of the more important principles which are recognised in the law of nations. To go into the details would require an entire treatise upon the law of prize, and another upon many complicated questions, growing out of international rights and duties in times of peace.

NATIVITY, in astrology; the theme or figure of the heavens, and particularly of the twelve houses, at the moment when a person was born; called, also, the horoscope, and Jstrology.)

NATOLIA, OF ANATOLIA, OF ANADOLI; a province of Asiatic Turkey, bounded N. by the Black sea, E. by Armenia and Syria, S. by the Mediterranean, and W. by the Archipelago and the sea of Marmora; about 650 miles long, from E. to W., and 400 broad, from N. to S.; square miles, 270,000; population, 6,000,000. Within these limits are included not only Natolia Proper, but also Caramania, Roum, and Aladulia. The whole is divided, by the Turks, into six pachalics, viz. Natolia, Sivas, Trebisond, Konieh or Cogni, Marasch, and Adana. The capital of Natolia Proper is Kiutajah ; the principal scaport, Smyra ; other principal towns are Bursa, Angora, Sinob, Guzel-Hisar, Aphiom-Karahisar and Ismid. It is divided into 17 *san*giacats. Natolia was anciently called Asia Minor, which comprised ancient Bithynia, Paphlagonia, Galatia, Phrygia, Mysia, Æolia, Ionia, Lydia, Caria, Doris, Pysidia, Licia and Pamphylia. (See the articles.) The soil is in general fertile, producing corn, tobacco, and fruits of various kinds, cotton and silk; and, notwithstanding the indolence of the Turks, the commerce is con-. siderable, particularly in carpets, leather, drugs, cotton, silk, and other articles of manufacture and produce. The greater part of the inhabitants are Mohammedans: but there are many Christians, principally of the Greek church, governed by patriarchs, archbishops and bishops, who are tolerated by the Porte. There are likewise, many Armenians, and some Roman Catholics. (See Ottoman Empire.)

NATROLITE. (See Zeolite.)

NATRON; a salt which is found in the

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ashes of several marine plants; in some lakes, as in the Natron lakes of Egy pt; and in some mineral springs, &c. (See Soda.)

NATURAL BRIDGE, in Rockbridge county, Virginia. This bridge, which is over, Cedar creek, is a great curiosity. dimensions are vast; its appearance lofty, grand, and even awful. It stands on the ascent of a hill, which, according to the opinion of some persons, has been cloven by some great convulsion; but according . to the opinion of others, the chasm has been worn by the action of the water. The fissure, at the bridge, is 250 feet deep, 45 wide at the bottom, and 90 at the top. The rock, which forms the bridge, is 60 feet broad in the middle, and is covered with earth and trees. Here is a postoffice; 14 miles S. W. of Lexington, and 180 W. of Richmond.

NATURAL HISTORY is the description of all bodies belonging to nature, in one of the narrow senses of the word nature, in which it is confined to the visible objects of this earth, including, of course, the phenomena of their growth and formation. The systems of the different kingdoms of nature will be found under their respective heads; and our limits do not permit us to give here an account of the general systems which have attempted to classify all the phenomena of created objects. Generally speaking, only the external description of the objects of nature is comprised in natural history, and chemistry (q. v.) and natural philosophy (q. v.) are excluded, leaving only four chief divisions: 1. geology, or mineralogy in its most extensive sense; 2. phytology, or botany (the natural history of plants); 3. zoology (description of animals); and, 4. authropology (the natural history of man). Another division has ı made, by German naturalists, with reference to the form of bodies, their composition, and their functions (if they are endowed with life), which. gives rise to the three departments of morphology, chemistry, and biology or physiology. Aristotle is to be regarded as the founder of natural history. (See Aristotle.) Of the Romans, Pliny the Elder (q. v.) deserves to be particularly mentioned. He left a collection of notices respecting natural history, though deformed by a mass of incorrect observations and fabulous reports. In the darkness which the, middle ages spread over the West, the natural sciences suffered severely; nature was dealt with in a most barbarous and absurd manner by the schoolmen. With the revival of learning, a new day dawned on natural history; Bacon led the way to

the last century, by Courad Gesuer in mately in Southern and Northern Germa-Zurich (q. v.), Aldrovandi at Bologna, Ray in England, Tournefort in France, and others; but Linnieus first collected and systematized the treasures of natural science. He gave us the first system of nature; and though it is an artificial system, and not founded in nature itself, he has done more for natural history than almost any man for any other branch of knowledge. , Since his time, natural history has been cultivated with the greatest zeal in Germany, England, France, Sweden, Russia, and of late in the U. States. Buffon did much for this science, by the splendid style in which he taught it. The desire to treat natural history according to a natural system, not only in single branches, like botany, but, if possible, in its whole range, became more and more general. Oken (q. v.) has occupied himself with the latter task particularly, and given to the public several The number of results of his labor. works, in the various departments of natural history, is very great. Böhmer's Bibliotheca Scriptorum Hist. natural. (Leipsic, 1785 et seq., in 5 parts, 10 vols.), gives those which appeared before the beginning of this century, when a very interesting period commences. A complete view of the present state of this science may be found in Cuvier's Dictionnaire des Sciences Naturelles, which has been publishing, since 1816, in Paris, in large 4to. Among the manuals on natural history, Blumenbach's Naturgeschichte is one of the most distinguished. Not unworthy to be mentioned here is the Naturhistorischer Atlas, by Goldfuss (Düsseldorf, 1824), which is to contain 480 lithographed plates.

NATURALISTS, ASSOCIATION OF GERMAN Physicians, and, Natural philosophy and natural history are studies very extensively cultivated in Germany, by men who devote themselves particularly to the scientific pursuit of these studies, as well as by physicians, &c.; and it was thought that an annual meeting, which might assemble many of the persons thus engaged, would have the most beneficial influence on the progress of science; by the free interchange of their ideas and discoveries, and the mutual stimulus which they would afford each other, besides the benefit which those from'a distance would derive from visiting the various museums and libraries. Professor Oken (q. v.) proposed, accordingly, a plan of such a society, which actually went into operation in 1822, and has repeated its annual meet-

closer observation, and much was done, in ings, each time in a different city, alterny, ever since, with the most successful results. The society was established Sept. 18, 1822. Its meetings are always in autumn, and do not last longer than a week. Every author of a work on natural philosophy or medicine is considered a member; inaugural dissertations, however, are not considered as scientific works for this purpose. No election of members takes place. Whoever attends is a member for the time. Meetings are al--ways with open doors, and begin September 18. The members are divided into classes, who meet by themselves, in addition to the general meetings. Each year, a president and secretary (the only officers) are chosen for the next year. The association makes no assessment, and holds no property except its records. The expenses of the meeting are, defrayed by the members present. Men of science from almost all parts of Europe have attended the last meetings, and, in 1829, when it was at Heidelberg, an invitation was received from the baron De Ferussac, in Paris, requesting this association to cooperate with the society who carry on the Universal Bulletin, in Paris. The writer of this short notice has published a more minute account of this society and its spirit, in No. LXVII of the North American Review, with a translation of its constitution.

NATURALIZATION. (See Alien.)

NATURAL LAW, or, as it is commonly called, the law of nature, is that system of principles, which human reason has discovered to regulate the conduct of man in all his various relations. Doctor Paley defines it to be the science, which teaches men their duty and the reasons of it. In its largest sense, it comprehends natural theology, moral philosophy, and political philosophy; in other words, it comprehends man's duties to God, to himself, to other men, and as a member of political society. The obligatory force of the law of nature upon man is derived from its presumed coincidence with the will of his Creator. God has fashioned man according to his own good pleasure, and has fixed the laws of his being, and determined his powers and faculties. He has the supreme right to prescribe the rules, by which man shall regulate his conduct, and the means, by which he shall obtain happiness and avoid misery. He has given to man the power of discerning between good and evil, and a liberty of. choice in the use or those means, which

lead to happiness or misery. The whole duty of man therefore consists in two things: first, in making constant efforts to ascertain what is the will of God; and, secondly, in obedience to that will when ascertained. For the purposes of the present article, we shall assume, without undertaking to prove, that there is a God of infinite power, knowledge, wisdom, benevolence, justice and mercy; that he has created man with suitable powers and faculties to pursue and obtain happiness; that man is a moral, dependent and accountable being; that his soul is immortal; that his ultimate happiness or misery is dependent upon his own conduct; that minate in himself. there is a future state of retribution, in which the inequalities of the present life will be adjusted according to supreme wisdom and goodness; that, by a right application of his powers and faculties, man may always discern and pursue his duty; that virtue, or doing good to mankind in obedience to the will of God, has attached to it the reward of everlasting happiness; and that vice, or doing wrong in disobedience to that will, is, by the very constitution of man's nature, necessarily connected with suffering and misery, directly or ultimately. In short, that man cannot be permanently happy by the practice of vice, and must be permanently happy by the practice of virtue. We shall assume these propositions, not because they are not susceptible of complete proof, but because, not being intended to be discussed in this place, they nevertheless form the basis of the subsequent remarks.

From the moral government of God, and the moral capacity and accountability of man, we deduce his general rights and duties. 1. His duties towards God. In the just performance of these duties consists picty or devotion. In a large sense, indeed, every performance of our duty is but a performance of some duty towards God; since it is his will which makes it a duty. But in the restrained sense, in which we are accustomed to use the phrase, we refer it to those duties of which God is peculiarly the object. As he is our Creator, we owe him supreme worship and reverence ! as he is our Benefactor, we owe him constant gratitude and thankfulness; as he is our Lawgiver and Judge, we owe an unreserved obedience to his commands. We are fruit and dependent beings, and we have constant reason to implore his assistance, his mercy and his forgiveness. Hence arises the duty of prayer, as a

ment and of cultivating devout affections: as an effectual instrument of communing with our own hearts; as a source of consolation under the afflictions of life; and as an exercise of piety fitted to give a spiritual elevation to our thoughts, and a livelier and more enduring sense of our duty. From the same causes also flow the duty of public and social worship; of maintaining religious institutions; of aiding in the diffusion of religious knowledge; and of keeping in view, in all our words and actions, an habitual and reve-. rential tear of God .- 2. The duties of man towards himself, or those which ter- . Among these we may enumerate the duty of personal holiness; of self-preservation; of temperance; of humility; of personal improvement in knowledge, wisdom and virtue; and of preserving a conscience void of offence towards God and towards man .-3. The duties of man towards other men, or what are called his relative duties, arising from the various relations, which he sustains or may sustain towards others.-Now these duties flow from the correspondent rights of others. And this leads us to the consideration of the different sorts of rights. Rights are usually divided into such as are natural or adventitions, alienable or inalienable, perfect or im-We call those rights natural, perfect. which belong to all mankind, and result from our very nature and condition; such are a man's right to his life, limbs and liberty, to the produce of his personal labor, at least to the extent of his present wants, and to the use, in common with the rest of mankind, of air, light, water, and the common means of subsistence. Adventitious rights are those, which are accidental, or arise from peculiar situations and relations, and presuppose some act of man, from which they spring; such as the rights of a magistrate, of a judge, of electors, of representatives, of legislators, &c. We call those rights alienable, which may be transferred, by law, to others, such as the right to property, to debts, houses, lands and money. We call those rights unalienable, which are incapable, by law, of such transfer, such as the right to life, liberty. and the enjoyment of happiness. call those rights perfect, which are determinate, and which may be asserted by force, or in civil society by the operation of law; and imperfect, those which are indeterminate and vague, and which may, not be asserted by force or by law, but are solution of our dependence on obligatory only upon the consciences of God; as a means of rolligious improve-

to his life, to his personal liberty, and to his property; and he may by force assert and vindicate those rights against every aggres-But he has but an imperfect right to gratitude for favors bestowed on others. or to charity, if he is in want, or to the affection of others, even if he is truly deserving of it. It is difficult to make any exact enumeration of what may be deemed the general rights of mankind, which may not admit of some exceptions, or which may not be deemed capable of modification under peculiar circumstances. Thus the most general rights, which belong to all mankind, may be said to be the right to life, to liberty, to property, and to the use of air, light, water, and to the fruits of the earth. And yet, under certain circumstances, life, and liberty, and property, may justly be taken away; as, for instance, in order to prevent crimes, to enforce the rights of other persons, or to secure the safety and happiness of society. And in like manner the free use of air, light and water, may be interdicted.-In regard to imperfect rights, although the sanction is wholly upon the conscience of the party under a sense of religious responsibility, the obligation to perform the duties corresponding to them is, nevertheless, to be deemed as imperative, as if they also possessed the strongest earthly sanctions; since they arise from the commands of God, and are to be done in obedience to . his will. Every man is therefore bound to exercise charity in its largest sense; to be just, grateful, kind and benevolent; to promote the general happiness; to speak · the truth and to abstain from falsehood: to abstain from oppression, anger, revenge, hatred, malice, slander, uncharitableness, persecution, and every other injurious act These are duties, which are or passion. incumbent on him in respect to all the There are others, again, human race. which arise from peculiar relations to others; such are those, which belong to him in the character of master or servant, magistrate or subject, parent or child, husband or wife. Among the duties of masters and servants, we may enumerate, on the part of the master, the duty to enjoin on servants no unnecessary labor or confinement, from caprice, or wantonness, or passion; to insult no servants by harsh, opprobrious or scornful language; to refuse them no harmless pleasures; to promote their welfare by all, reasonable means. on the part of servants; the duty to be industrious, and punctual in the discharge of their duty, faithful and honest; and to yield a ready obedience to all just com-

mands. On the part of magistrates, the duty of exercising power with moderation and mercy as well as justice. On the part of subjects, the duty of obeying the laws and supporting the institutions of society. On the part of parents, the duty of maintaining, educating, and otherwise providing for the intellectual, moral and physical improvement of their children. On the part of children, the duty to render their parents a just homage, love and reverence, to obey their commands, to lighten. their labors, assuage their sorrows, and, as far as may be in their power, to administer to their infirmities, and to support and succor them when in poverty. On tho part of husband and wife, the duty to promote domestic peace and harmony; to cultivate mutual love and forbearance; and in prosperity and in adversity, in sickness and in health, in life and in death, to be true, and watchful, and tender, as those whom God has united in bonds of permanent obligation and sauctity. And this leads us to the consideration of the subject of marriage, and some of the rights and duties flowing from it. Marriage is an institution, which may properly be deemed to arise from the law of nature. It promores the private comfort of both parties, and especially of the female sex. tends to the procreation of the greatest number of healthy citizens, and to their proper maintenance and education. It secures the peace of society, by cutting off a great source of contention, by assigning to one man the exclusive right to one woman. It promotes the cause of sound morals, by cultivating domestic affections and virtues. It distributes the whole of society into families, and creates a permanent union of interests, and a mutual guardianship of the same. It binds children together by indissoluble ties, and adds new securities to the good order of society, by connecting the happiness of the whole family with the good behavior of all. It furnishes additional motives for honest industry and economy in private. life, and for a deeper love of the country of our birth. It has, in short, a deep foundation in all our best interests, feelings, . sentiments, and even sensual propensities; and in whatever country it has been introduced, it has always been adhered to with an unfailing and increasing attach- ' Polygamy, on the other hand, seems atterly repugnant to the law of nuture. It necessarily weakens, and, in most cases, destroys the principal benefits and good influences resulting from marriage. It generates contests and jealousies

among wives; divides the affections of parents; introduces and perpetuates a vo-luptuous caprice. It has a tendency to dissolve the vigor of the intellectual faculties, and to produce languer and indolence. It stimulates the sensual appetites to an undue extent, and thus impairs the . strength and healthiness of the physical functions. It debases the female sex. It retards, rather than advances, a healthy and numerous population. It weakens the motives to female chastity and to exclusive devotion to one husband. sides; the very equality in point of numbers of the sexes seems to point out the law of God to be, that one woman shall be assigned to one man. And in point of fact, the countries, where polygamy has been allowed, have been uniformly debased, indolent and enervate, having neither great physical, nor great intellectual ability. If marriage be an institution derived from the law of nature, then, whatever has a natural tendency to discourage it, or to destroy its value, is by the same law prohibited. Hence we may deduce the criminality of fornication, incest, adultery, seduction, and other lewdness; although there are many independent grounds, on which such criminality may be rested. It follows that the right of divorce must be a very limited right; and that divorces are forbidden by the law of nature except for causes of a very extraordinary character. It is manifest, that a power on either side to dissolve the marriage at will, would rob the state of matrimony of many of its principal blessings and advantages. It would deprive one of the parents of the comfort and gratitude of the children of the marriage. It would defeat the main purposes of their union, and weaken all domestic ties between parents and children. On the other hand, a very restricted allowance of divorces has a natural tendency to preserve peace and concord in families, by perpetuating a common interest, and encouraging mutual forbearance and affection. By denying, except for extraordinary reasons, the right of divorce, we discourage, in a proportionate degree, the desire, as well as the means of accomplishing it. Christianity. has confined the right of divorce to the single case of adultery; though the law of nature may perhaps be thought to justify some few other exceptions.-4. We next come to the duties of man as a member of political society. And, here, we shall briefly treat of certain rights and duties, which may arise from the law of nature independent of any organization

into political societies, but which more naturally find a place here, because they constitute the principal grounds for such organization. Thus the right of property, the obligation of contracts, the duty of speaking the truth, the sanctity of oaths, with other corresponding duties, strictly speaking, may be perfect in a mere state of nature, without the recognition of any fixed society; for they may exist and have a necessary application independent of such society. But their value and importance are far more felt, and far better provided for, in political society, and, therefore, properly belong to the present head.

 The origin of political society.— The origin of political society may be traced back to the primitive establishment of families. From the union of a number of related families grew up tribes; and from tribes gradually grew up colonies and nations. Accidental associations for offence or defence may, in some instances. . have introduced the first elements of fixed society between strangers; and a sense of mutual interest and mutual dependence may have rendered them permanent. Coeval with the establishment of civil societies was the origin of civil government. Parents, from necessity as well as from prudence, exercised, and were admitted rightfully to exercise, immediate authority and government over their children and The patriarch or chief of a families. tribe, in like manner, exercised authority over those, who were of his blood and lineage. And, silently, the powers of rule or government were either divided as convenience or accident dictated, or were retained by the head, as the common bond of the union of the whole. Sometimes, indeed, government did or might arise from military associations for plunder or And in such cases the protection. strongest, the most intelligent, and the most enterprising and valiant, were the most likely, in the first instance, to be intrusted with the highest powers. necessity, in all such cases, of prompt submission and obedience, in order to accomplish the immediate objects in view, furnished a sufficient excuse, if not just reason, for intrusting the leaders with summary and despotic authority.

2. Governments, then, may be properly deemed to arise from voluntary consent, or from long acquicscence and prescription, or from superior force. The fundamental objects of all civil governments are, or ought to be, to promote the welfare and safety of the whole society.

It is obvious, that no single individual can protect himself to the same extent or by the same means, as an organized society or government can protect him. The latter has the powers, authority, union and resources of numbers. Men-enter. then, into civil societies for the protection of their persons, and personal rights and property. In a state of nature, if either be invaded, the only redress is by the application of positive force by the individual, who is injured. But under the establishment of civil governments, the redress is taken from the individual, and is administered by the government itself through its own functionaries, and according to its regulations, and by the authority and force of numbers. The entering into civil (society, therefore, necessarily, or, at least, naturally, induces the surrender of all those private rights, which are indispensable for the good order, peace and safety of the whole society. And, indeed, unless some surrender of powers and rights were made, there could be no such thing as a regular government, since each person would be at liberty to do as he pleased, and there could be no such thing as lawful authority on one side to give a rule, or, on the other side, any duty of obedience, Civil government, then, may be properly said to consist in the exercise of such delegated powers, as are proper or necessary for the safety, protection and happiness of the whole community. And civil liberty may be said to consist in not being restrained by any laws, which are not conducive to the public welfare. We sometimes see governments existing, in which these objects are but imperfectly obtained, and ask ourselves, why they are not changed. There are several reasons, , which may help us to a just understanding of the facts, and enable us satisfactorily to solve the inquiry, how it should happen, that governments should fail of attaining the very objects, on which they are founded, and yet be supported by the acquiescence of the people. In the first place, in every government, there are many persons. who obey from mere prejudice, or the · habit of obedience, and from an inherent Vy indisposition to contemplate any thing me otherwise than as it at present exists, sious they do not stop to consider, whether it can probable and better or not. They are content, them no have inertice, to let things remain as their welfal. In the next place, those whose on the part of is governed by reason, are often dustrious, and to obedience by the consciousof their duty, ir own inability to procure suitayield a ready s; by the dread of civil commo-

tions; by doubts as to the method of curing existing evils; and by the persuasion, that in many instances the form of government has become so interwoven with the habits and institutions of the prople, that as much mischief as good might be done by a change. In the next place, in every government, many persons have a direct and positive interest in preserving the government as it is, and even in perpetuating its very corruptions. They may be a favored class, enjoying peculiar privileges, ranks, or patronage; they may have their whole property and importance involved in the existence of the present state of things. In the next place, the actual moral and intellectual power, and even physical power, of the state in its present organization, may be so combined in the structure of the government, that they may present insuperable barriers to any change. If, for instance, the whole of the privileged classes should happen to be the only educated persons in the nation; if the whole priesthood should depend upon the government for its influence and support, and its exclusive patronage and privileges; if the whole wealth of the community should be lodged in few hands, and those few should be the very heads of the government; if the military power should be so organized, that it could searcely find the means, or possess the power, to act except under the existing arrangements; -in any, and in all of these cases, it is easy to perceive, that there would be immense difficulties in introducing any fundamental and salutary change. It could scarcely take place but upon some general convulsion, which should break asunder all the common ties of society. But it may be asked, as civil government is formed by the whole people, whether it can ever be justly altered, except by the will of the whole. If by the will of the whole be meant the will of each individual singly, it may be answered in the affirmative; for by entering into society, men necessarily engage to be governed by the will of the majority, since unanimity in all matters . of civil polity is impracticable. will of the majority or the will of the minority must govern. If the latter, by a veto, can stop all measures, the majority are governed by them. All reasoning and all principle, therefore, unavoidably lead to the result, that the will of the majority must be deemed the will of the whole for all practical purposes; and as the interests of the whole society require this, it is binding on every part of it.

3. The origin of property. One of the great objects of political society is the protection of property; and many learned discussions have taken place as to the origin and nature of property. Some things are of common and universal use by all mankind, and to such use all mankind have an equal right. Such, generally speaking, arc (as we have seen) air, water, and light. Other things belong, exclusively, to one or more persons, and no others have a right to intermeddle with, possess, or enjoy them. Such an exclusive right in things is called property. How did such a right originate? It is plain, that, in a mere state of nature, no man could insist, that he possessed any such exclusive right to things in general; for, if one possessed it, all would equally possess it, which would be the same as to affirm its non-ex-, as families are formed, the necessity of istence. The earth, and its various fruits, herbage and trees; the various inferior animals, such as birds, fishes, and beasts; cither for food, or covering, or pleasure, or labor, seem alike to belong to all mankind, and are for the use of all. To a limited extent, possession and use of a thing must, indeed, confer a temporary or permanent ownership. If, for instance, a man stands or lies on a particular spot of ground, during the time of such occupation, he must have the exclusive right of occupation, for it is indispensable for his immediate use, and no other person can show a better right to it. So if he gathers fruit, for the purpose of eating it, no other person can have a better right to cat it than himself; and he must, therefore, have an exclusi right, because it is necessary to the use. But if he does not hold the fruit to eat it at present, but lays it aside for fu- ture consumption, his right to the exclusive use of it is not so clear; it is somewhat more remote; it does not turn upon immediate possession, and immediate use. It may be said, that he has, by his labor, gathered it, and therefore he has a superior title to it. But, though his labor is his own, it does not follow, that, because he bestows it upon another thing, he thereby acquires any exclusive ownership in that thing. It may be extremely inconvenient, and, perhaps, even injurious to the common claims of others, that he should so bestow his labor upon it. They are not, therefore, bound to respect any claim founded upon such labor. Some persons found the right of property upon a presumed or tacit consent of all mankind, which is a mere theory, and wholly unsupported by any universal facts. Others the right to property, it is very certain, that,

at most, gives only a present and temporary right, during such occupancy. Others, again, found it upon the very equality of all mankind, and contend that, as God has given all things for the use and necessities of all, each may appropriate to himself whatever is proper to satisfy those necessities. But, even here, he must leave sufficient to satisfy the necessities of others; and they may take, of the stores so appropriated, enough to supply their own necessities. The truth, however, seems to be, that, in a state of nature, each man actually appropriates to himself whatever he desires, and can get; and he then holds it by the title of the strongest; and no other person respects his title any longer than it can be so maintained, though no one can show a better title to it. As soon providing for their own mutual comforts and wants, gradually leads them to hoard up and appropriate food, and other things, for future use. The convenience, and, sometimes, the necessity of an interchange of commodities with other families, of which each has a superfluity, leads to an increased accumulation. Possession and power are the guardians of these gathered stores; and a sense of convenience and mutual interest induces every family to regard with respect the commodities in possession of the other. Thus the first rudiments of exclusive property begin in the fact of actual possession and power, and the fitle gains strength and permanence from a sense of the beneficial results to the interests of all the neighborhood, and, ultimately, to the whole society, with which each family and tribe are connected. The advantages of the admission of such an exclusive right are soon felt by all reflecting minds, and gradually prepare the way for a more solemn recognition of it. It is porceived, that its tendency is to increase the products of the earth, by creating inducements to plant, when the planter is secured in his exclusive right to the harvest. It also improves the comforts and conveniences of life, and introduces a fit distribution of labor; and it cuts off a great source of perpetual contest and warfare among those, who would, otherwise, be struggling for the common prize. In the ordinary course of things, movables, such as fruits, and flocks, and herds, and fishes, first become property. Land rarely becomes permanent property until a much later period in the history of nations.

4. But, whatever may be the origin of

found it upon mere occupancy; but that, as it is now recognised and enforced, it is

a creature of civil government. Whatever right a man may have to property, it does not follow, that he has a right to transfer that right to another, or to transmit it, at his decease, to his children, or The nature and extent of his ownership; the modes in which he may dispose of it; the course of descent, and distribution of it upon his death; and the remedies for the redress of any violation of it, are, in a great measure, if not altogether, the result of the positive institutions of society. Accordingly, we find that, in different nations, all these subjects are regulated in very different manners. In some nations, all the children inherit the property, upon the death of the ancestor; in others, the eldest son only. some, there is power to dispose of the whole, or of a part only, by will and testament; in others, this power has been In some, the duration of the right of property is perpetual; in others, it is limited. In some, it may be alienated at all times, and in perpetuity; in others, the power of alienation is restrained. In some, long possession confers title; in others, it confers none. Above all, the capacity to dispose of property is variously regulated by civil institutions. It is obvious, that idiots, and madmen, and infants, ought not to be allowed to dispose of property, since they have no rational discretion. But at what period of life shall a man be deemed to possess such discretion? At ten, or twenty, or thirty years of age? Shall it equally apply, at all times, to both sexes, under all changes of condition? In all nations, some peculiar regulations have been adopted to settle these questions, which, by the law of nature, it would not be easy to settle by any uniform and fixed rule. The power of disposing of property is sometimes allowed at eightes, i, sometimes at twenty-one, sometimes chiwentyfive, and sometimes at thirty years of age. It is sometimes permitted to married women, but it is more commonly denied to them. Who can say, which of these periods is the true one, or which of these privileges is the proper one?

5. Another great object of society is the protection, not only of property in things, but of property (if we may so say) in actions. A great portion of the business of human society is founded upon contracts. express or implied; and these contracts, especially in modern times, constitute the bulk of the fortunes and acquisitions of many persons, from the humblest mechan-. the safety and happiness of the society, it ic up to the most opulent stockholder. is indispensable, that there should be some-The obligation of contracts, or, in other where lodged a power to make laws for

words, the duty of performing them, may, indeed, be deduced from the plainest elements of natural law,-that is, if such contracts are just and moral, and founded upon mutuality of consideration. It is indispensable to the social intercourse of It is conformable to the will mankind. of God, which requires all men to deal with good faith, and truth, and sincerity, in their intercourse with others. It is indispensable, in order to prevent injuries to others, whose acts, and interests, and pronerty, may depend upon a strict fulfilment of such contracts. But, in a state of nature, the obligation of contracts, however perfect in itself, cannot ordinarily be enforced upon the other contracting party to its just extent. The only remedy is positive force; and this, in many cases, is impracticable, and is generally inconvenient. The institution of political society brings the moral, as well as the physical power of the whole in aid of the natural obligation of contracts. The remedy is generally penceable, perfect and easy. But it may be naturally asked, what contracts are The true answer, in really obligatory. civil societies, is, all such contracts as the law of the land declares to be obligatory, or of which it permits the obligation to be enforced. The true answer, independent of the positive recognitions of civil society, is, all such contracts as are moral, just, practicable, and have not been extinguished in any lawful manner. Contracts which are immoral, or which have resulted from fraud or oppression; contracts which require impossible things, or are repugnant to natural justice; or which are founded in essential mistakes, as to persons, characters, or things; or which involve the breach of other paramount obligations, cannot, upon the principles of cternal justice, be obligatory.

6. Without going more at large into the origin and objects of political society, it will be seen, that these objects require the delegation (as has been already intimated) of certain powers and authorities to those, who are to administer the government. The ends required are the preservation of the general rights and the general welfare of the community; and the means to accomplish these ends must be given by the express or implied assent of the governed. The civil powers, which, in every well constituted society, seem indispensable for this purpose, are the legislative, executive and judicial powers. In order to secure

the punishment of wrongs and so fac protection of tights and for the promotion of the peace, health and good order of the society. And as there is a perpetual change in human afficie, and is we and inhuman jestislation sinst secessarily be im-exist in the government a power to open pendulty mult, for success one see must pendulty mult, for success one see in a surnitors which are against any save that the ottaine in milian analy and save that the perfect, the power to improve it, may always be presumed to be useful, since experience often points our mistakes and deficiencies. The power of legislation must therefore, in its nature, include the power of abolishing, as well as of enacting laws. Again, as the exigencies of the society must require expenses to be incurred, and of that part of the people, which has never never uses to be raised to defray those extually been assembled for such a purpose.

penses, the power of taxation naturally And this is in fact though in its humblest belongs to the power of legislation, as a form, a delegation of the sovereign power. means to accomplish the appropriate ends of society. But, if laws exist, they soon become a dead letter, unless obedience to them can be enforced; for it is found that moral obligation alone is not sufficient to ensure a perfect performance of duty. The existence of an executive authority, to which is intrusted the due and vigilant execution of the laws, seems indispenseble. And, as controversies may arise, in a great variety of cases, as to what is the right of one party, and the duty of another; whother property belongs to one party, delegation of their authority to a smaller or to another; whether a contract has or crime has or his not been committed, it Sometimes all these powers are concenseems also indispensable, that a power should exist, whose jurisdiction should extend over all controversies of this sort and despotism; sometimes they are all exer-should finally decide upon them. This, cised by one and the same select body, power is the judicial power; and its free, composed of a few select persons, and independent and honest exercise is as important to the safety and happiness of soriety, as either of the other two. In short, without a due administration of civil and

people: This would be a pure democra-cy. But it is shvious, that though possi-ble, in an exact some it is sourcely practicable; for all the people of even a small territory can rarely be assembled; some will be absent from accidental circumstances of illness, and age, and more pressing duties. And, probably, in no society whatever were these powers ever, in fact, exercised by the whole people, in any single assembly; for idiots, middien, infants, have been universally excluded; and married women, and persons guilty of crimes, have been usually excluded. The most simple form, in which the powere of government have ever been actually administered, probably is by a majority of that part of the people, which has acform, a delegation of the sovereign power of the whole, since it intrusts the authority of the whole to the part, which is assembled. It is also, though in its bumblest form, a representative government; for the whole are represented by those, who are: present. We ordinarily call such a government a democracy, or government of the whole people. But in societies, which are composed of large masses of population, such a form of government is unwieldy, and burthensome, and inefficient. The people are, therefore, driven to a number of persons, who can act as their has not been performed; whether a wrong representatives in the discharge of the has or has not been done; whether a legislative, executive and judicial functions. tred in a single person; and then the government assumes the form of a purp : then the government is, in form, a pure aristocracy. Sometimes the powers are divided, and distributed among various functionaries, and then the government becomes a mixed form of government. criminal justice, society is and can be, of becomes a mixed form of government little value. The merit of every govern. If the executive power, in such a case, is then must therefore, be subjected to this, delegated to a single person, it is then as the truest test of its real excellence. "called a monarchy, or a limited monarchy. as the truest test of its real excellence. If the executive power is exercised by a seriel legislative, executive and indicate, are select field of men, it is called an aristocracy of the exercised, and to what functionaries seem or limited aristocracy. If the executive power is exercised by a majorance of the executive power is exercised by a majorance of anticolor or what is usually called in find removable by the people, it is construction, of government. There are sometimes of actions of constitution, of government. There are sometimes of actions of constitution, of government. There are sometimes of actions of constitution of government. There are sometimes of actions of a positive of actions of a positive of a posi called a monarchy, or a limited monarchy.

if in an aristocracy it is so shared, it is called a mired aristocracy; if in a repullie, it is called a representative republic. But it is obvious that all these forms of government may be variously mixed together by delegations and limitations of the executive, legislative and judicial powers, in different proportions; and the actual structure of every government depending upon the choice, or necessities, or prejudices, or accidental combinations, of each society, they do not admit of any determinate classifications. But, whatever be the form of the government, the aggregate exercise of the legislative, executive and judicial powers constitutes what is commonly called the internal

sovereignty of a nation.

8. From the nature and objects of civil government, we deduce not only the rights, but the duties of magistracy. These, of course, depend upon the nature of the functions, which belong to the particular department, legislative, executive, or judicial. All magistrates are responsible to God for the due and honest discharge of their duty; and, in republican forms of government, these magistrates are also made, in some shape, directly or indirectly, responsible to the people. Every civil government is bound to promore the interests of agriculture, commerce and manufactures, as conducive to the strength and happiness of the people. Every government is bound to protect the persons, the personal rights and property of its citizens from violation and in-Every government is bound to jury. establish courts of justice, to provide for the panishment of crimes, to enforce the obligation of legal contracts, to encourage marriages, to prohibit immorality, to cultivate a sense of religious obligation, to allow a free exercise of religious worship, and a free expression of religious opinion, so far as it is not inconsistent with the public peace and safety. Every government may impose oaths or other solemn affirmations, appealing to the consciences of parties, for the purpose of as-certait the current truth of facts, or to secure the inst performance of duties. It may, therefore, reasonably require, that witnesses should be sworn, or otherwise solemnly bound to testify the truth and it may also reasonably require parties to take promissory oaths and affirmations for the future discharge of official and other duties. And here ends our imperfeet sketch of some of the leading principles of natural law, in their practical application to the relations of man to God, 100

to himself to other men, and to political society. The consideration of the rights and duties of nations to each other. and of their external sovereignty, and independence, and equality, belongs to another head, that of law of nations. (See Nations, Law of.)

NATURAL PHILOSOPHY. (See Philoso-

phy, Natural.)
NATURAL RELIGION. (See Religion.)
NATURAL STATE OF MAN is frequently used as synonymous with the state of . man previous to the growth of civilization, in which he is considered by some as entirely rude, by others as possessing the relies of intelligence, derived from a prior and better state. Some consider him as having begun in a rude state, but as assisted in the first steps of his intellectual p ogress by inspirations or revelations from Divine Providence, without which, notwithstanding his faculties, fitted for high improvement, he would have been at first more destitute even than the brutes. This view is well represented and defended, among other works, in Rechard Whately's Introductory Lectures on Political Economy (London, 1831). The expression natural state, if intended to designate the state best fitted to the nature of man, is ill applied to savage lite, notwithstanding the poets' dreams of a golden age of innocent ignorance, and the reveries of philosophers like Rousseau upon a state of savage virtue, uncorrupted by the vices of civilization. We believe that man's natural state is that of society, in a physical, as well as in a moral, point of view, and that man, in the savage state, is no more in a natural condition than a pine tree which is found growing near the limits of perpetual snow on the Alps, where it is stunted to the height of two or three feet. The characteristic trait of man in his (so called) natural state, or, rather, brute state, is improvidence, which reduces him almost to a level with the brutes, and effectually prevents his progress towards civilization; and it is a curions fact, that none of the savage tribes with which modern travellers have made us acquainted, have shown any tendency to intellectual advancement in the course of centuries, unless brought into frequent contact with civilized races—a fact which certainly is a strong argument for those who ascribe the beginning of civilization to the direct interference and assistance of Providence. (See Civilization.)

NATURE; a word of vast and various signification. In its most extensive meaning, it denotes the world, the universe; in

short, the creation; hence it comprises both the physical world and the spiritual, as both are created. Those philosophers, ancient and modern, who consider God as inseparably connected with the universe. to which his animating breath gives life, include even bim under the idea of nature. In fact, they have not unfrequently confounded God with the laws and principles of nature.* But the Christian expresses, by nature, in its most extensive meaning, the universe, as contradistinguished to God, the Creator. In another application of the word, nature is contradistinguished to art, and signifies every thing which is not artificial, not purposely produced or practised with reference to rules of art. In this sense, we speak of a natural poet, or artist, products of nature, &c. It must be observed here, that, in many cases, it is very difficult to draw the exact limit between nature and art. Natural is also used in contradistinction to laught, or communicated; thus we speak of natural powers, in comradistinction to the ability acquired by education, and natural religion, or that which man is supposed to acquire from observation of himself and the creation around him, in contradistinction to positive religion, or such as is revealed, and established by special circum-The term natural religion has been used, also, in a very different sense. It merve, sometimes, that polytheism which is founded on the worship of the deified powers of nature. According to some, all polytheism has such an origin. In the narrowest sense, nature means the peculiar character of the various objects of nature in its widest sense, as given above. In this application, it is often used for character only, and we even speak of the "nature of God." In reference to men, na*ture* is very frequently used for the physical constitution, and moral disposition, of an -individual. In theology, the word nature is often used; thus men speak of the "divine and human natures of Christ," of the "natural state of man," &c. In the fine arts, noture often means the successful imitation of nature; but, with artists of a higher order, nature does not signify a mere copy, but, as it were, the expression of the ideal of nature, at which she aims in all her formations, yet without reaching it, as she never produces, in

* Natura est principium et consa efficiens omnium rerum naturalium, quo sensu a veteribus philosophis cum Deo confundebatur. Cic. De Natura Deor., Lib. I. c. 3, et sequentih, and Lib. II, c. 22 and 32. To dofine natura by reference to the res naturales can hardly be considered very philosophical.

crystallization, precisely that mathematical figure which constitutes her model. (See Copy.) Though the angles are exact, there is always some side larger than the others.

NATURE, PHILOSOPHY OF. The German Naturphilosophie is very different from the English natural philosophy. This latter is termed, by the Germans, Physik, or Naturkunde. The philosophy of unture, in the German sense, is an investigation of its immost principles, such as the great question of the connexion between måtter and mind, either in the case of the individual man, or of the connexion' between God and the outward universe, and other questions of this sort, the riddles that have always vexed the human understanding. Natural philosophy (Physik) is the great instrument of the philosophy of nature, furnishing it with the materials from which its conclusions must be Such speculations, even if not. likely to lead to any satisfactory results, are yet not to be hastily condemned. One of the strongest proofs of the elevation of which man is capable, is his perpetual striving to rise above the field of ordinary observation, to "pass the flaming bounds of space and time," and, in spite of the weakness of mortality, to explore the abyss of the infinite and the everlasting. If we take the word nature in its most comprehensive sense, as embracing the whole of existence, it will include man both as a spiritual and a material being; so that the philosophy of nature, in this sense, will embrace all the departments of philosophy. In its more common sense, however, it has a more limited meaning, and is contradistinguished to intellectual philosophy. While this latter strives to investigate the essential principles of religion, morality, law, the philosophy of nature seeks for the ultimate elements of what is generally termed natural science. The origin of this philosophy of nature is to be looked for among the Greeks, where Pythagoras presented his views of it in a mathematical form. The term itself is undoubtedly derived from the Philosophia naturalis Principia muthematica of Newton, although Newton himself advised the students of natural science to avoid this sort of speculation. Schelling must be considered as the reviver of the philosophy of nature in Germany, and has been followed by many others, particularly Oken. Although, as we have said, we do not consider such inquiries as unsuitable exercises of the human mind, we are far from admiring the extravagances to which they have, in many cases, led the

German philosophers. Deprived of the stone, subjects which exercise the activity of man in free states, the Germans have pushed their speculations, in many branches of banks of philosophical science, beyond all reasonable limits, and not unfrequently lost themselves in a wilderness of words, reminding us of the remark of Göthe's Mephistopherics:

Denn ches wo Begriffe fehlen, De stelle et e Wort zur rechten Zeit sich ein. For when ideas have grown sean

A ready word supplies the want.

It is but fair, however, to quote, on the other side of the question, a passage of a contemporary writer,* who treats the subject in a peculiar way. Alluding to the views he has before expressed, he says, "With such an idea of this science (philosophy), it is natural that all German speculations should bear more the character of beginnings than of finished results. Important as some of the results are to which these speculative efforts have led, still their greatest value consists in the unwearied and never-satisfied strivings of the mind to sound and comprehend itself, and that whole, of which itself is but a particle. Jacob, who, in his dream, wresthat with the Lord of Heaven and Earth. bearing off in his lameness a revelation of Omnipotence, is the true emblem of German philosophy. It is something that, you must not expect to turn to imm diate account in your particular trade or profession; nor is it necessary, in order to be benefited by it, that you should adopt its results. German metaphysics have been called the best gynamatics of the mind; and the true object of gymnastics, we know, is not to give the power to perform some great and astonishing feat, but methodically to unfold, invigorate and retine all the growing powers of man,"

Naumachia (from the Greek rangaya, a sca-fight), among the Romans; a public spectacle, representing a naval action. Casar was the first who exhibited a spectacle of this sort, which soon became the favorite amusement of the Roman people. The sircus maximus, in which they were at first represented, being found inconvenient, buildings were erected by the emperors, particularly calculated for the purpose; these edifices were likewise called naumachiae. They resembled the amphitheatres, and, like them, were, at first, built of wood. Domitian appears to have been the first who erected one of

A naumachia, built by Augustus, was 1800 feet long and 200 wide, and was capable of containing 50 ships with three banks of oars, besides many small vessels. They were suddenly laid under water by means of subterraneous canals, so that the ships were raised at once from the dry floor before the eyes of the spectators. The water was usually brought from the Tiber, near which the naumachiæ were usually built, but sometimes from aqueducts. The nannachiarii, or persons who fought in these exhibitions, were gladiators, slaves, criminals, &c., who were doomed to die, unless they were saved by the interposition of the people, or of the person presiding at the show.

NAUMANN, John Gottlieb, or Amadeus, one of the greatest composers, chapelmaster to the elector of Savony, at Dresden, was born at Blasewitz, near that city, in 1741. His father was a peasant, who, perceiving his son's talent for music, perinitted him to go every day to school, in Dresden. A member of the chapel at Stockholm, having been led, by chance, into the house of his father, was astonished to find some difficult pieces of music lying on the harpsichord, and offered to take the boy, then thirteen years old, to Italy. The offer was accepted with reluctance. The boy was obliged to perform the most menial services for his master. He followed him, on foot, to Hamburg, and thence, in 1758, to Jialy, where he was obliged to earn his own subsistence, by copying music, and to cook for his master. He finally obtained admission into the number of Tartini's pupils, in Padua, and, soon atter, found a kinder master. He remained for three years in Padoa, and then went to Naples, where his taste for theatrical music was awakened. He settled in Venice, where he gave lessons, and composed some theatrical After a residence of eight years in Italy, be was called to Dresdon, where he was appointed, in 1765, a composer to the elector. He soon after made a second journey to Italy, residing chiefly at Naples, where he composed two operas. In 1769, he returned to Dresden, in order to compose the great opera La Clemenza di . Tito, for the marriage of the elector. In 1772, he made a third journey to Italy, where he composed, within thirteen mouths, five operas, after which the elector appointed him his chapel-master. Ho composed, for the theatre of Stockholm. his Imphion, Cora, and Gustavus Vasa, and, for the Danish court, his Orpheus. Among his best operas are Tutto per

^{*} Professor Fóllen, in his Inaugural Discourse, Cambridge, May, 1831.

Amore, and La Dama Soldato. In later years, church-music became his favorite occupation, though he brought out his Acia, and Galatea, as late as 1801. He died Oct. 23 of that year, from an apoplectic stroke. He left a number of sacred compositions, as the Lord's Prayer, several psalms, oratorios, vespers, &c. Naumann was also a great performer on the harmonica, for which he composed six somatas.

Necessity, on the Saale; an old city, with 9015 inhabitants, pleasantly situated near the confluence of the Unstrut with the Saale, in the Prussian duchy of Saxony, government of Messburg. The cathedral was built in 1628, and deserves to be examined. It was formerly the see of a Catholic bishop; but, on the death of the last bishop, the spiritual jurisdiction was assumed by the elector of Saxony (1561). The wine of the environs is exported. The Schulpforte is in the vicinity.

NAUPACTUS. (See Lepunto.)

NAUPLIA, OF NAUPLAOS. (See Napoli di Romania.)

Navarano (Neocastro); a fortified town, on the south-west coast of the Morea, north of Modon, with a harbor capable of accommodating 1000 ships, but with a narrow entrance, which admits only two ships abreast. The island of Sphacteria (Sphaeia) lies before it. The water is deep enough for the largest men-of-war, and affords a perfectly safe anchorage. The fortifications consisted of four bastions and a citadel, on a high rock. The Venet as, who occupied this city a long time, creeted the fortifications, and maintained possession of it against the Turks, until 1745. In 4821, it was captured by Tipaldo, a Cephalonian. In 1825, it was taken by Ibrahim Pacha. Oct. 20, 1827, the combined Russian, French and English fleet, under the command of admiral Codrington (the French admiral was De-Rigny; the Russian, Von Heyden), destroyed the Turco-Egyptian fleet of 214 vessels, drawn up in the harbor of Navarino, in less than three hours. (See Greece, Revolution of.) In 1829, the powder magazine in the citadel was struck by lightning, and a great part of the French garrison perished in the explosion. · Navarino, to the north-west of the harbor, is the site of the ancient Pylos, the residence of Nestor. During the Peloponnesian war (425 B. C.), the Athenian fleet destroyed a superior Spartan naval force in this harbor.

NAVARRE (Navarra); a province of 14 *

Spain, with the title of kingdom, separated from France by the Pyrenees, having the kingdom of Arragon on the south. kingdom was formed on the dissolution of the enspire of Charlemagne, and consisted of Upper Navarre to the south, and Lower Navarre to the north, of the Pyrences. In 1512, Ferdmand of Arragon united the former to the Spanish crown, and the latter only remained in possession of the kings of Navaire. When Henry IV 19, v.l. son of Antony of Bourbon, and the heiress of Navarre, ascended the throne of France, this kingdom was annexed to the French monarchy, the sovereigns of which assumed the title of "kings of France and Navarre," which (with the exception of Napoleon) they continued to bear until the recent revolution. (See France.) Upper Navarre now forms the Spanish kingdom of Navarre, with 271,285 inhabitants, who mostly speak the Basque language; square miles, 2340; chief town. Pampelina, with 14,000 inhabitants. Lower Navorre, previous to the French revolution of 1789, formed part of the province of Bearn, and, at present, is included in the department of the Lower Pyrences, The inhabitants also speak the Basque language. (See Basques.)

NAVABRETE, don Martin Fernandez, a learned Somiard, director of the hydrographic cabinet at Madrid, and of the royal academy of history, has thrown much new light on the history of Columbus, by his researches in public, private and conventual libraries and archives in Spain. In 1789, Charles IV having directed an examination of the documents illustrative of the early discoveries of the Spaniards, Navarrete, whose scientific acquirens ms, and intimate knowledge of the various dia lects of Spain, pointed him out as a suitable person for this task, was intrusted with its execution. After spending about thirty years in examining the public archives of the kingdom, of different cities and convents, together with the collections of the duke de l'Infantado, and of the duke of Veragua, a descendant of Columbus, be published the first volume of his work in 1825, emitted Collection de los Vinges y Descubrimientos, que hicieron por Mar los Españoles desde Fines de Siglo XV. con varios Documentos ineditos, of which the second and third have since appeared. The first volume contains a general introduction, and the history of the four voyages of Columbus; the second contains justificatory pieces, and the third treats of other voyages, as Vespuce's, &c. first volumes have been translated into French, under the title Relation des quatre Voyages de Colonie (3 vols., 1827), with notes, and other additional matter communicated by Navarrete, and notes by Relbi, Remusat, Cuvier, and others. Navarrete is also the author of a Memoir on the Progress of Navigation among the Spaniards; a Dissertation on the Participation of the Spaniards in the Crusades, and some other works.

Nave (Middle Latin, navis: French, act), in Gothic architecture; the part of the cross (in the form of which cathedrals are built) situated towards the west. (See Architecture, vol. i, p. 343.)—Nave of a B ball. (See Hub.)

NATIOATION; whatever relates to traversing the sea in ships; the art of ascertaining the geographical position of a ship, and directing her course,-Horace has well said, that his heart must needs have been bound with oak and triple brass, who first committed his frail bark to the tempestuous sea. Nothing, indeed, conveys a higher idea of human during than the holdness with which man rushes forth to encounter the elements; nothing speaks louder in praise of human ingenuity than that wonderful art by which he is enabled to forsake the land, stretching forth until fades from the horizon, and nothing visible remains but the hollow heavens above, and a trackless waste below; drivca from his course by adverse winds, yet, by dint of perseverance, wearying out the chements; and, at length, arriving, with meeting certainty, at the haven where he would be. And if the daring and ingenaity of the navigator deserve our admiration, the result of his efforts will not appear-unworthy of the means. It is to the exercise of his wonderful art, that we are indebted for the improvement of our condition, which arises from the exchange of the superfluity of one country for that of another, the whole world being penetrated, and every clime made tributary to every other, until the whole globe is reduced to one common country. Above all, to navigation are we indebted for that higher and nobler advantage,-the interchange or sense and sentiment, which makes wisdom common to the world, and urges man onward to perfection. Yet it has not always been so. Time was when the canoe, or the raft, constituted the only ship of the sailor, and when the narrow precincts of a lake or river set bounds to his roving disposition, and confined him within view of familiar objects. Advancing a step farther, we find him venturing from headland to headland, or from island to

island, with a view of gratifying his curiosity, or bettering his condition, until a gale, driving him to some unknown coast, increases at once his knowledge and hardihood. Meantime, his bark adapts itself to nobler functions, enlarges its size, and improves in form: the rudder is added, the mast is better sustained, and the sail receives a more favorable applica-And thus the art by which the ship is made, and that by which it is conducted, advance with equal steps. Deprived of the aid of surrounding objects, the land withdrawn from view, and nothing within the verge of the horizon but a waste of trackless water, the mariner casts his eyes in despair to the overhanging heavens. Aid is granted to his prayers: the constellations assist him in his course; among many revolving stars, he finds one steadfast, and makes it his perpential guide. Such do we find the actual state of navigation among the savage tribes of our own day; and such was also the progress of the art among the earliest nations that improved it. Not the least of the amproves ments which we have made in this art, is that simplification in practice, by which it is real-ered available with little study and capacity. Anomalous as it may seem, yet it 's true, that more study, more experience, and laboriously acquired information, were in cessary to form an Acestes, or a Paliminus, them are now required to florish forth a La Perouse or a Purry. The master, or pilot, of ancient times, who had command of the sailers, and directed alt the evolutions, was not merely required to know a hatever related to the management of the sails, the oars, and the rudder: he was to be familiar with all the ports that lay in the track of his navigation, the landmarks by which they were, designated, and all the rocks, quicksands, and dangers of the intervening deep; he was to know the course of the winds, and the indications which preceded them; also the movements of the celestial bodies. not merely for the purpose of directing his course by them, but to understand the winds and weather, which some of them, as Arcturus and the Dog star, were believed to portend. Moreover, he had to be skilled in reading the various omens, which were gathered from the sighing of the wind in the trees, the marmurs of the waters, and their dash upon the shore; the flight of birds, and the gambols of fishes. A voyage was, in those days, a momentous and awful undertaking. When the time arrived for the sailing of a ship or fleet, the masts were raised, the

sails bent, and all made ready with solemnity, and great parade of preparation. If, as was most usual, the ships were hauled up on the shore, the mariners placed their shoulders at the stern of the ships, and, at the word of command, pushed their bows forward into the sea, leaping aboard when they floated. Levers were used to move the heavier vessels, and, in later times, the helix (probably jack-screw), which Archimedes' had invented for that purpose. Before putting to sea, the gods were ever solemnly invoked, and propitiated by numerous sacrifices; thus we find all Homer's heroes sacrificing to the gods before they undertake a voyage; and Virgil's Anchises ventures forth only after having devoted a bull to Neptune and a bull to Apollo. Nor did the voyagers alone supplicate protection: the crowds of friends and countrymen, who througed the shore, joined fervently in prayers for their deliverance from danger, and, like the Venusian poet, commended their departing friends to the presiding deities of the winds and waves. All omens were carefully regarded; the entrails of the sacrifices examined, with every possible prognostic of good or evil; and a very small matter, the perching of swallows on the ships, or an accidental succee to the left, was enough to delay departure. As this, however, never took place without the most for orable anspices, it was always joyful. The ships were adorned with streamers and garlands of flowers; and, when the signal was given from the admiral ship, by sound of trumpet, a shout of rejowing rang through the fleet, sent back by the responding blessings of the friends that remained. After advancing a short space, doves, which the mariners had brought from their homes, were released, and their safe arrival—not unfrequently charged with the last adieu of a departing lover-was considered anspicious of the return of the fleet. The admical led the van, conspicuous by his painted sails and streamers, and opened a path in which many followed. In moderate weather, the ships often sailed side by side; but, as the wind freshened, and the sea grew rough, the order became more open, to avoid contact. At all times, they kept close to the land, following the indentations of the coast. night approached, it was customary to anchor, or else to beach the vessels, that the crews might repose, each rower sleeping on his bench, ready to renew his If the labors with the returning sun. amenity of the weather, the friendly aid

of the moon, or the open nature of the navigation, admitted of sailing during the night, the plummet or the sounding-pole directed their course, or it was shaped, as by day, from headland to headland. If the land were not visible, the known direction of the wind continued, with the aid of the stars, to guide them. Cynosura was the favorite star of the Phoenicians: the Greeks abandoned themselves to the direction of Helice. Having escaped the multiplied dangers of such a navigation, and having accomplished their object, the ships returned home with songs and rejoicings. If they were to be stranded, the sterns were turned towards the shore, and the vessels forced backwards upon it with the oars, until the crew landing, drew them beyond the reach of the surf. Sometimes they were taken into the beautiful moles, or artificial harbors, which the ancients constructed, with great labor and ingennity, within the natural ones. These were in the shape of crab's claws, or horns, the ends, which formed the entrance, so overlapping as to exclude the swell of the sea. Castles defended their approach, and a light-tower, placed at the entrance, guided those who sailed along the coast, or desired to enter by night. It was called Phoros, from the island at the . mouth of the Nile, where the first tower had been creeted. Here the vessels were not hauled up, but simply fastened to the rings, or pillars, provided for the purpose, while at the inner port were docks and stores for building and repairing. In this port, too, were temples devoted to the gods, and especially to the patron of the place, where propitiatory sacrifices were made, and yows fulfilled or recorded: here, too, were numerous faverus, and places of more licentions gratification. Whether, however, they stranded their vessels on the beach, or moored them in the harbor, the mariners, before repairing to these resorts, fulfilled the vows made before departures, or in seasons of peril, offered thanks to Neptune, and sacrifices to Jupiter, for having granted them release from the durance of their ships. Upon those who had escaped shipwreck, gratitude was more deeply incumbent. In addition to other sacrifices proportioned to their means, they usually offered the garment in which they were saved, together with a picture descriptive of the If nothing else remained to disaster. them, the hair was shorn from the head, and consecrated to the tutelar deity; hence offering the hair was the last vow of the distressed mariner. There is much that

is beautiful in these simple acts of piety; but, except in some Catholic countries of. the Mediterraneau, where pictures of rescue and garments are still hung before the shrine of an invoked intercessor, and where processions are still made, after escape from shipwreck, none of these touching customs now remain. can be more beautiful than the grateful sense of divine interference with which Columbus and his followers hasten to fulfil their vows after their safe return to Palos? Such piety, if it availed not to avert present danger, at least served to inspire confidence to meet it; and, when past, the gratitude which it occasioned must have tended at once to refine the sentiments and ennoble the heart.-Imperfect as were the means and knowledge of the ancients in this noble art, yet the Carthaginians, who superadded the greatest commercial enterprise to the greatest skill which had yet been attained, achieved results which may even now be esteemed brilliant. They made the whole of the old world tributary to their city: not contented with exploring every nook and corner of the Mediterranean, they left behind the ne plus ultra which had hitherto almost entirely bounded the excursions of their predecessors, visited that Atlantic coasts of Europe, the British isles, and, pursuing the grand idea which afterwards led the Portuguese to India, discovered a vast extent of the western coast of Africa. Pliny even states that Hanno completed its circumnavigation, and returned home by the Red sea. Had not Carthage prenaturely fallen beneath the rivalry of a nation braver and more barbarous, Vasco da Gama might have had to seek laurels elsewhere than by sailing first to India, and even Columbus been spared the most brilliant and enviable of all the achievements of navigation,-the discovcry of the New World. The art of navigation gained nothing after the fall of Carthage; and the invasion of the northern barbarians effectually extinguished the few gleams of science which had survived her catastrophies. Every thing remained stationary for centuries, until the returning day of civilization began once more to dawn upon the world. It was not until the close of the twelfth century, that man became sensible of the existence of the most singular property which an all-wise and all-beneficent Creator has provided to be tas guide upon the deep; nor until a still later period, that the genius to improve it—the gift of the same good Being—at length rendered it available to so noble a

purpose. We allude to the polarity of the magnet, and the invention of the mar-The property of that iner's compass. mysterious mineral to attract iron was early known to the Greeks and Chinese; but the far more singular one of assuming a particular direction, was not even suspected. Pliny himself, who records every thing known or fancied in his time concerning the magnet, makes no allusion to its polarity. The first accounts of this speak of it as known in the twelfth century, and that mariners sometimes made use of it to ascertain their course. Of the mariner's compass, we can only say that it was either invented or revived in 1302, by one Flavio Gioia, an obscure individual in the kingdom of Naples; and even this is not known with certainty. While the heroes of the remotest times come down to us, not only with an accurate account of battles tought and thousands slain, but with a minute detail of their private lives, and most insignificant peculiarities, posterity is at a loss to know whom to bless for a recent discovery, of all others the most useful in its results, the most important in its influence upon the destinies The effects of this discovery of adu. upon navigation were not, however, immediate; for the mariner, as much as any one the slave of habit, could not at once appreciate and confide in the excellence of his new guide. This is the only excuse for the uncertainty which hangs about the identity of the discoverer. The experience of half a century, however, showed the value of this new assistant. Navigation now assumed a bolder character. Prince Henry of Portugal, son of king John, having gained a brilliant reputation in a war with the Moors, turned from these fierce pursuits to the more congenial one of science. Retiring from court, he established himself in a retreat upon the promontory of St. Vincent, and, calling round him astronomers and mathematicians from every nation, he collected and systematized all the science of the day. Nor were his rescarches of a mere speculative character; they were directed to enlighten the field of discovery in which he was engaged, in search of a nearer route to India, and which, though he attained not the grand object of his ambition, repaid him well by the inferior discoveries to which it led. It was to aid these enterprises that he caused charts to be drawn, which, though they involved the monstrous supnosition of the earth's being an extended plane, were of no inconsiderable use to the navigator, as they brought together

whatever was known of the relative position of the different points of the earth, · and enabled him to see, at a single glance, as in a picture, not only the direction of the port which he desired to visit, but also the various coasts, rocks, and quicksands to be avoided in the way. He also inyented the astrolabe, which was simply a quadrantal arch, graduated at the rim into degrees and half degrees, and by directing one edge of which towards the heavenly body whose altitude it was desired to mea-* sure: a plunimet suspended from the centre was made to mark the angle of elevation. This was used at first to discover the latitude from the elevation of the pole star; for, as that star is in the horizon when viewed from the equator, and rises gradually in approaching the pole, so that it would at length become vertical, it follows, that the elevation is always equal to the observer's distance from the equator, which is the latitude. The error resulting from the star's not being exactly polar, was of little note in those primitive days of the art. Soon after, by causing tables of the sun's declination to be computed, prince Henry enabled the mariner to deduce his latitude more correctly from the meridian altitude of that star. Yet all these improvements, though they added much to what was already known, left the art in its infancy. Columbus was the most accurate navigator of his day; still we find him often making an error of so many degrees in his latitude, that the mistake of an equal number of minutes would not be excused in a modern navigator. To mention one of man, incances,-he places San Salvador three degrees north of its true posi-But if Columbus made his discovery with such imperfect means, the greater was his merit: to him belongs the credit, by purhing holdly forth amid the uncertainties of the ocean, of forcing navigation, as well as ship-building, to provide against new difficulties, and march rapidly onwards in the career of improvement. From the moment that the hitherto hidden mysteries of the ocean were thus solved, we find improvements and inventions multiplying in rapid succession: First, the log is introduced, to measure the ship's rate of sailing: Nunes, a Portuguese mathematician, next shows that the shortest distance from place to place upon the surface of the globe, must always be along a great circle of the sphere: he also proves the fallacy of the plane chart: Gerard Mercutor, a Fleming, next suggests the idea of extending the meridian lines on the plane chart, in receding from the

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equator, in a ratio equal to the error occasioned by supposing the meridians parallel, instead of gradually converging as they do towards the poles. By this means, the advantage of a plane surface was retained without the error of the old chart, or the inconvenience and imperfection of the globular projection. Wright, an Englishman, improving the suggestion' of Mercator, calculates a table of meridional parts, increasing the length of the arches of meridians in due proportion towards the pole, and furnishes, thereby, data to determine, in any latitude, the difference of longitude from the departure, or distance sailed east or west. At the same time, lord Napier's invention of logarithms wonderfully diminishes the labor of calculation, enabling the mathematician, by their help, to substitute for the tedious operations of multiplication and division the simpler ones of addition and subtraction. Now, too, Gunter presents the scaman with his admirable scale, contaming the logarithmic lines, by aid of which and a pair of dividers, all the problems of geometry are easily and accurately performed. The circumference of the earth is ascertained by measuring a given portion of its arch; and, the length of a degree being known, the log-line is mark ed accordingly. The quadrant, or rather octant, is invented, and measures the altitude of the heavenly bodies to the nearest minute, undisturbed, like the astrolabe, by the motion of the ship. The sextant and circle still improve upon the octant and each other. And now the tables of the moon's motions, invented by Mayer, with a view to ascertain the longitude, are improved by Maskelyne, and published periodically at the expense of the British goverument. The idea of finding the longitude by the watch had been early suggested as an important use of admirable machine; but it continued too imperfect until the last century, when the munificent rewards offered by Britain so stimulated mechanical ingenuity, that it has at last become admirably adapted to this important purpose. To those who are ignorant of the means by which men are enabled to trace their way over a trackless deep, and to whom the whole art . is a mystery, it may be interesting to learn how seamen, and often very ignorant odes, are able successfully to practise it. We shall, therefore, in conclusion, briefly explain the actual practice of navigation: and, first, it may be necessary to premise that, in order to determine and designate positions on the surface of the globe, lati-

tude and longitude have been invented. Nor is this system entirely arbitrary, since nature berself furnishes the data. have the poles, determined points of that axis round which the earth performs its daily revolutions: equidistant from these poles, and midway between them, nature aids us to conceive a line called the equator, and about which, by the motion of the earth in its orbit, the sun seems to perform an equal movement, accomplishing the beautiful scheme of the seasons by an aumual excursion on either side. What idea more obvious, and, at the same time, more beautiful and complete, than that of measuring latitude from the equator towards the poles, upon meridional lines perpendicular to it, and formed upon the surface of the earth by planes of its axis? But the latitude, though it indicates the distance from the equator, does not alone determine the position; for the same lati-tude may correspond to an infinity of places, except only a latitude of ninety degrees; hence, then, the necessity of longiude, measured round the world mon the equator, and small circles parallel to it; for, crossing each other at right angles, the same latitude and longitude can only concar at one given point. Latitude and longitude are measured in degrees, manutes and seconds; the first, from the equator to the poles, a quadrant of ninety degrees; the second, from the first meridian east and west, a semi-circle, or 180 degrees, and meeting at the antipodes. this there are two things deeply to be regretted; one is, that the circle had not been divided into 400 degrees, instead of 360, each quadrant being of 100 degrees, and each degree further subdivided centesimally into minutes and seconds. Every one having any knowledge of figures may appreciate the advantage. The second subject of regret is, that, nature having furnished no data for a line at which to begin the measurement of longitude, the first meridian is arbitrarily chosen, almost every nation selecting its own capital for the purpose: hence charts and nautical almanaes must undergo a tedious reduction before they can be used by mariners of different nations. The cause of sci-. ence, as well as general convenience, would be greatly promoted by adopting some ocean island as a common first meridian, whence the longitude might be universally estimated, without shocking national vanity. Let us now show the means by which the mariner guides his bark across the ocean, and is able, at all times, to determine his, progress and posi-

The most important instrument used by the navigator is the compass. It consists of a magnetized needle, freely suspended, by an agate or metal socket at its centre, upon an upright spindle, and possessing the singular property of pointing to the poles. The magnetic virtue is communicated to the needle, which is a flat, oblong piece of hard steel, by applying a natural or artificial magnet to its two extremities. The magnet has two distinct properties, corresponding to its two extremities or poles, the one called boreal, the other austral magnetism, and whichhave a near analogy to the equally mysterious principles of positive and negative electricity. When, then, the poles of the magnet are applied respectively to the intended poles of the needle, magnetic influence is developed, not imparted; for the magnet, instead of losing virtue, has itself gained a new accession; and tho needle assumes the wonderful power of pointing to the poles of the earth. Attached to the needle is a circle of paper, called the card, upon which the points of the compass are marked, the north and south points corresponding to the poles of the magnet, with which it revolves. The spindle rises from the bottom of a brass or wooden hemisphere, called the shell: this shell is connected to the compass-box by means of two concentric rings, or jimbals, which allow it to swing freely as the ship rolls and pitches, so as to maintain a perpetual level. The box, in turn, is placed within the binnacle, which stands in front of the helm. It were vain here, or any where, to speculate upon the cause of magnetism. We are acquainted, indeed, with the effects of the phenomenon, but all beyond continues to builte the search of science. It only becomes us to avail ourselves of its guidance, with humble and devout thankfulness for a gift obviously bestowed to open to us the highways of the deep. Having in the compass an instrument for directing our course, we next seek the means of ascertaining the distance run. This we find in the log. The log is a long cord, having a piece of wood attached to one end, and called the chip. This is of a quadrantal form. and being slung at the corners with line, and loaded at the circumference, when thrown overboard, it remains erect and stationary, and drags the line off as fast as the ship passes through the water. The line is divided into knots and half knots, representing miles and half miles, or minutes of a degree, to which they bear the same proportion as the log-glass does-

Thus the log-glass being to an hour. filled with sand, to run through in 30 seconds, the length of a knot must be 51 feet, the first being the same proportion of an hour, that the last is of a mile. As, however, the log is found to come home a little in the effort to draw the line out, it is customary to mark the knot a foot or two less than the true length. The mode of heaving the log to measure a ship's rate, is as follows: The log-reel, upon which the line is wound, being held by one of the sailors, the officer places himself on the rail to leeward, and a third person holding the glass, he proceeds to prepare the chip, so that the peg of one of the lines holding the chip in a perpendicular direction, will draw out, by the force of the water, when the reel is stopped, and allow it to haul in easily. Then, having gathered a sufficient quantity of line into his hand, he throws it far to leeward, that it may not be affected by the eddies which follow in the wake. The stray line, which allows the chip to get astern, now runs off, and the instant that the white rag, which marks its termination, passes through the hand of the officer, he cries, "Turn!" and continues to veer out line until the glass runs out, and the person holding it cries, "Stop!" Then the line is grasped, and the number of knots that have passed off mark the speed of the ship. When this exceeds five miles, it is usual to use a glass of 15 instead of 30 seconds, counting the knots double. The rate of sailing, per hour, multiplied by the hours sailed, thus gives the mariner the measure of his run. In addition to these essential instruments for directing the course and ascertaining the distance, the navigator must be provided with octants of double reflection, to measure the altitude of the beavenly bodies; and a circle, or sextant, more nicely graduated, to measure distances between the moon and stars. He should also have with him a book constaining the logarithms of numbers, sines, . tangents and secants, to facilitate trigonometrical calculations; tables for correcting altitudes for dip, parallax and refraction; also lists of latitudes and longitudes for every part of the world; and of time of high water at every port, at the period of full and change of the moon, from which, at all times, to be able to find the tide; and a variety of tables, to facilitate the various problems of navigation. He should also have with him the Nautical Almanac, containing the places and declinations of the fixed stars and planets, and especially small circle becomes more considerable,

and other stars, and all that relates to that body, with a view to calculate the longitude by observation. Finally, he must be provided with the general and local charts applicable to his contemplated voyage. Thus furnished, the marmer may set sail with confidence; many do so with no other aids than their compass, log, quadrunt, a single chart and book of navigation, and arrive in safety. But it is less our business to show with how little care a ship may be navigated, than to show how she may be carried from port to port with the greatest possible certainty. Having taken leave of the port, and, when the last land is about to disappear from view, either from the growing distance or the intervention of night, the mariner selects some conspicuous headland, of which the latitude and longitude are noted in his tables, and, placing a compass in some elevated position, remote from any iron object to disturb its polarity, proceeds to determine its bearing, and estimate his distance from it, either by the progress made from it, or by the ready estimate of a practised eye. Or, taking the simultaneous bearings of two distinct points of coast, he has still surer data for deducting his position. This is called taking the departure, and is carefully noted on the logslate, with the time of making the observation. Thenceforth the log is thrown every hour, and the course and distance are entered upon the slate, to be copied into the log-book at the end of the day. The first thing which the navigator attends to, after making the offing which prudence dictates to clear the dangers of the land, is to shape his course for the port of his And first he searches in the destination. chart if there be any point of land, island, or rock, intervening in his way. If there be, the course is primarily shaped with reference to the danger; if not, the differences of latitude and longitude between the two places being taken, the course and distance are obtained by the aid of trigonometry. The shortest distance between any two places on the surface of our sphere, is the arc of a great circle passing through those two places. Thus, between cape Henry, in latitude 37°, and the island of St. Mary, in the same latitude, but 50° lon. farther E., the distance is 30 miles less in sailing on a great circle, than' if you were to sail due E. on a parallel of latitude, and consequently on a lesser circle of the sphere. In a higher latitude, the difference between sailing on a great or the distances of the moon from the sun as the small circles grow smaller; thus, . in the latitude of 60°, a distance equal to that between cape Henry and St. Mary would offer a disparity of near 200 miles. . But, as it is only in sailing on the equator, or on a meridian, that the compass points us uniformly along a great circle of the sphere, in most cases it would be necessary to change the course at short intervals, in order to attain even an approximation towards this desideratum. instance, in sailing from cape Henry to St. Mary, on a great circle, it would first he necessary to sail more than a point northward of E., gradually approaching that direction towards the middle of the distance, when the course should be due E.; thence declining southward, until the land would be made upon a course as much south of E. as, on starting, it was north of it. In high latitudes, when the reduction of distance would offer a sufficient inducement, it may be advantageous to attempt following a great circle; but in the seas ordinarily traversed by mariners, the trifling increase of distance which results from following a uniform course, as obtained by Mercator's sailing, is far more than compensated by its convenience and freedom from all perplexity. For the rest, the wind not unfrequently deprives the fastidious navigator of all choice between a great circle and a loxo-At the first noon succeeding the time of taking his departure, the mari-This is an ner works up his reckoning. epoch fixed by nature, being determined by the passage of the sun over the meridian, and is therefore well chosen as the beginning of the day. The log-slate being marked, he copies the courses and distances, if from head winds or other cause they have been various; the departure each course, either by geometrical calculation, or, more expeditiously, by reference to tables; then he adds the several differ-ences of latitude and departure, and, if they be of different names, as some north and some south, some east and others west, deducts the less from the greater. With the remaining difference of latitude and departure, he not only finds the course and distance made good, but also the lati-"tude and longitude in; the difference of latitude being applied to the latitude left, by adding or subtracting, in sailing from or towards the equator, at once gives the latitude of the ship. But before the depart-

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ure can be thus applied to find the longitude, it is necessary to reduce it for the converging of the meridians towards the poles; for, though all degrees of longitude are divided, like those of latitude, into 60 minutes or miles, yet they decrease in length, from being equal to a degree of latitude at the equator, until they become nothing at the poles. There are many ways, more or less accurate, of deducing the difference of longitude from the departure, the latitude being known; they are founded upon this principle; the circumference of the earth at the equator is to its circumference at any given parallel. of latitude, as the departure is to the difference of longitude. The most easy and correct way of obtaining the difference of longitude, on an oblique course, is by the aid of a table of meridional parts; for, having taken out the meridional difference of latitude, the mariner has this simple proportion: the proper difference of latitude is to the meridional difference of latitude, as the departure to the difference of longitude. The difference of longitude thus obtained, is applied to the longitude left, adding or subtracting, in sailing to or from the first meridian, and the result will be the ship's longitude; which, with the latitude previously ascertained, determines her position on the chart. The method of navigating thus described is called dead reckoning. It is far from intallible, and leaves much to desire. It will, indeed, do pretty well in short rens ; but as errors daily creep in from many causes escaping calculation, such as bad steerage, leeway, in eve of the sea, unknown currents, and as these accumulate, and become considerable at the end of a long voyage, it becomes from the land is also converted into a necessary for the mariner, removed course; as is also the current, if there is any known one. He next proceeds to be resort to the inunovable guides in find the difference of latitude and departing the heavens, whose motions the God ure from the meridian corresponding to that placed them there has given him. capacity to comprehend. Let us now see how the ship's position on the ocean, represented by latitude and longitude, may at any time, without reference to course sailed, or distance, to capricious' winds and stealthy currents, be ascertained with ease and accuracy. And, in the first place, to find the latitude, we have. abundant data. All the heavenly bodies are, by the revolution of the earth, daily brought to the meridian, at which time, if their altitude be measured, their declination or distance from the equinox being known, the latitude is readily deduced; it may also be deduced from single or &

double altitudes of bodies not in the meridian, the times being accurately known. But the meridian altitude of the sun is what furnishes at once the easiest and most correct method of finding the latitude. The meridian altitudes of the stars, and frequently of the moon, must be taken at night, when the horizon is vaguely marked; moreover, their minuteness and want of brilliancy make observation troublesome and uncertain; but when the sun comes to the meridian, the observer brings a brilliant and palpable object down to a well-defined horizon; then, too, he has the advantage of observing, at a self-fixed epoch, the beginning of a new day. So great, indeed, are the advantages offered by the meridian altitude of the sun, that no other means of finding the latitude are used, except when these have failed from a clouded atmosphere, or when the mo-mentary expectation of making the land quickensthe marmer's anxiety. We shall, therefore, now explain the method of deducing the latitude from the sun's meridian altitude. Furnished with a sexant, circle, or octant of reflection, the observer goes upon deck, and, having examined the adjustment of his instrument, proceeds to bring down the image of the sun reflected by its mirror, until the lower limb just sweeps the horizon. He continues to follow and measure as ascent, until it ceases to rise; the moment that it begins to fall, and the lower limb dips in the horizon, the sun has passed the meridian. The altitude marked by the index being read off, it is next corrected. And first, the ob-rver adds the senu-diemeter, in order to make the altitude apply to the centre of the object; next, he subtracts the dip to meet the error caused by the extension of the horizon, in consequence of the roundity of the earth, and the clevation of his eye above its surface; also the refraction of the atmosphere, by which the object, when not vertical, is made to appear higher than its true place; lastly, . he adds the parallax (a small correction, inconsiderable from the sun's distance), in order to reduce the calculation for the centre of the earth; for which point all calculations are made, and which is ever supposed to be the station of an observer. Having made all these corrections, which many mariners despatch summarily, by an addition of 12 minutes, he has the true meridian altitude of the sun. Taking this from a quadrant, or 90 degrees, gives its zenith distance, or distance from that point in the heavens which is immediately over the observer, and would be met vol. ix.

by a straight line passing from the centre of the earth through his position. Now, if the san were for ever on the equinoctial, the zenith distance would always be the latitude; for, whilst the zenith is the observer's position, referred to the heavens, the equator is there, in like manner, represented by the equinoctial; and we have already seen that latitude is the distance from the equator. But, as the sun is only twice a year upon the equinoctial, and as his distance from it, at times, increases to more than 20°, it becomes necessary to take this distance (called his declination) into the estimate. The sug's declination is given, in the Almanae, for the noon of each day; by correcting it for the time anticipated or elapsed, according as the sun comes first to him or to the first meridian, by his position east or west of it. the observer obtains the declination for noon at his own position. This declination applied to the zenith distance, by adding when the sun is on the same side of the equator, by subtracting when on the opposite side, gives the true lautude. A daily and accurate knowledge of his latitude is, then, to the mariner of our day, a desideratum of easy attainment. By its aid, nothing is easier than to sail clear of any rock or shoal that crosses his track, either by a watchful look-out at the moment of passing its latitude, or else by avoiding its parallel entirely, until it be surely passed. Moreover, this is his best and surest guide in aiming at his destined port; for he has but to attain the exact latitude it lies in, and then sail directly upon it, east or west, to be sure of success. And here nature is again his friend: by a singular coincidence, discoverable in glancing at the map of the world, most coasts and continents lie in a northern and southern direction. Hence the value attached, by seamen, to an accurate knowl- ** edge of the latitude; and hence the saw of "Latitude, lead and look-out," But if it be possible to obtain the longitude with any thing like an equal case and certainty, no one will dispute its advantage. Although, as we have stated, most coasts follow a northern and southern direction, there are yet not a few, ruch as both coasts of Cuba and San Domingo, which lie east and west, so that points along. them are only determined by the longitude. And even to have the satisfaction, . not merely to run his finger along the chart, and say, "I am somewhere along that parallel," but to be able to point to the spot; and say, "I am there," is, to the nice navigator, no insufficient motive. Various

ways have been devised to find the longitude, in all of which the great element is time. Inasmuch as the earth performs her diarnal revolution in 24 hours, from the time any given meridian is brought under the sun until it reaches it again, it follows that 24 hours and 360 degrees are both equal to a circle, and that the equator and other circles of longitude may be indifferently estimated by either of these divisions. Hence the difference of time between two places, is no other man the difference between the sun's coming to their respective meridians, or, in a word, their difference of longitude; and hence it follows that if we, by any means, simultara ously ascertain the time at the first meridian, and the time at ship, we shall have ascertained the longitude, easiest method of solving this problem is by means of the chronometer. This is a watch so nicely constructed as to go with perfect uniformity, either having no error whatever, or else losing or gaining a known quantity every day. This watch is set to the time of the first meridian, and its rate is carefully ascertained, before leaving the land. To find the longitude by means of it, the mariner has merely to take an observation of the sun or other star, when rising or falling rapidly, and deduce the time of ship; this, cor, pared with the time at the first meridian, simultaneously given by the chronometer, determines the longitude. Several chronometers concurring with each other, may Anke the mariner sure of his position; but a single one, unchecked by other data, and liable, from its nicety of construction, to easy derangement, is a dangerous guide. The many noble ships so inexcusably lost, in late years, between the entrances of the Delaware and Hudson, owe their destruction to a blind dependence on a single chronometer. The most expeditions and certain way of observing the longitude, is by the eclipses of Jupiter's Their times of immersion and emersion at the first meridian are noted in the Almanac, and these, compared with the times at which the telescope shows the observer the occurrence of the same phenomena, determine the longitude. But the unsteadiness of a ship at sea deprives the mariner of this expeditious method. Fortunately, there yet remains open to him one of sufficient accuracy: this is, by observing the distance of the moon from the sun and other fixed stars, and comparing the time of observation with that time at which the Almanac shows a similar dis-, tance for the first meridian. The only

difficulty attending this beautiful method; which the rapid movement of the moon in her orbit, and her consequent change of distance from the stars, renders proportionably correct, consists, in the first place, in nicely observing the distance, and then in correcting it trigonometrically for the errors occasioned by parallax and refrac-A single lunar observation, like a single chronometer, has been confided in to the loss of many a gallant ship; but a series of them, taken from day to day, with stars on different sides of the moon, and concurring to show the same longitide, are worthy of all confidence. Thus, aided by these heavenly guides, is the mariner at all times able to determine his position. He should not, however, be mattentive to any means of information; he should, by observing the difference between the magnetic bearing of some heavenly body, and what calculation shows to be its true bearing, daily inform himself of that wonderful phenomenon,the magnetic variation; he should, in calm weather, ascertain the direction and force of the current, by lowering a boat and anchoring it to an iron vessel let down below the superficial strata of the ocean; in approaching the land, he should be attentive to the changing color and temperature of the sea, which last is, especially on our coast, an admirable monitor; also to the floating of weeds, and the flight of birds, such as do not stray far from it. All these little cares, the watching of the barometer, and profiting by its friendly predictions, and the frequent inspection of the chart, which they take from the dangers of navigation, mause the mariner, and beguile the redium of the sea. Thus, then, is a slup conducted from port to port; thus are dangers avoided, difficulties Though they who traverso overcome. the, vast ocean leave neither track nor . waymark for the guidance of those who follow, it is thus converted into a plain and convenient highway, extending to the extremities of the earth. (See the article

NAVIGATION LAWS. The acts of the British parliament, intended to favor British shipping in preference to that of other countries, are denominated aurigation acts. It is the policy of every nation having any considerable advantages for maritime commerce, to encourage and protect their own shipping, by giving it advantages in the home ports. One mode of doing this is by absolute prohibitions in certain species of trade; another is, by taxing foreign shipping, or the cargoes

imported or exported in doreign bottoms, at a higher rate than the national vessels The most celebrated or their cargoes. law of this description is that passed by the British parliament in Cromwell's time. in 1651. Its object was to wrest the carrying-trade of Europe from the Dutch, into whose hands it had, at that time, mostly fallen. For this purpose all foreign vessels were prohibited from engaging in the trade between one British port and another, or between any British port and a colony or dependency of Great Britain. This trade is equivalent to the coasing-trade of the U. States, and such other countries as have no foreign dependencies. 'The trade between the ports subject to any government, whether at home or abroad, is a proper object of legislative regulation, and the reasons for confining it generally to the national shipping are obvious; since, if a country depends upon foreign vessels to carry on the trade between its different ports, the means of communication are liable to be withdrawn in case of a war with the nation whose shipping is employed in such trade, Another reason in favor of such a law is founded in the policy of most countries to copen to their own citizens the means of employment, as far as their habits, disposition and capabilities dispose them to fill up such employments. There are other reasons for such a regulation, which need not to be stated here, but which, with those above stated, have induced maritime countries to pursue a similar policy. other material provision of the law of Crone Il's earliament, was a requisition that foreign ships should bring to England only the products of the countries to which the ships belonged. This at once cut off the Dutch from all their foreign carrying-trade, as far as Great Britain and its dependencies were concerned. operation of such a law would, of course, be limited by the amount of commerce of the country by which it should be adopted. But the commerce of England being extensive, it would necessarily have a powerful influence in increasing the maritime industry and capital of the country. If every nation with which England had any commerce, had had a commercial marine, and had passed a similar law, still the British shipping would have stood , upon an equal footing with that of each foreign country in carrying on the trade between the two, and the Dutch, the great rival against whom the law was levelled, would have been confined to the trade between Holland and Great Britain. But, 1768.

as all foreign nations had not such a marine, and as all those which had did not immediatoly pass similar laws, the British bavigation not only regained from the Dutch the transportation between British and other foreign ports than those of Holland, but also acquired a very large portion of the foreign carrying trade between one foreign port and another; of a large proportion of which they have kept possession now (1831) for 170 years. Such are the general features of the navis . . gation acts of Great Britain; but they allowed of some exceptions, as where it was supposed to be for the advantage of Great Britain to supply foreign contailes with any particular product of Ungland or its colonies, and such a supply would be promoted by relaxing the navigation laws, as was the case, for a time, in respect to some West India products, the vessels of other countries were permitted to trade to the colonies, and take away eargoes of such products for any foreign port. This was a relaxation of the colonial system. which is closely interwoven with the navigation laws. It was adopting, so far, the principle of fire trade. But this principle . does not, by any means, form the basis of the present system of the navigation laws of Greet Pritain, nor, indeed, of any other country having a commercial marme of any considerable extent. In the trade between any two countries, one cannot obtain any advantage by legislation, except by the supinenes, or mistakes of the other; for whatever regulation is adopted by one, may be coemervailed by a corresponding regulation of the other. In case of a masonable share of intelligence on the part of both, each must be content with a reciprocity; and in this nations are, at present, willing to acquiesce. Another object of the navigation laws is to promote the fisheries, as a source of wealth, and also a noisery of seamen. The laws of England, Holland, France, and the U. States, favor this branch of maritime industry by strenuous encouragement and protection.

NAVIGATOR'S ISLANDS; a group of about ten islands, in the southern Pacific ocean, to the north-east of the Priendly islands; between lat, 13° and 15° S., and lon, 168° and 173° W. Like most other islands of those seas, they are surrounded with coral recis, and appear to be of vol-canic origin. The natives are numerous, strong, well made, fierce and active. islands abound in cocoa, bread-fruit, bananas, and domestic animals of several sorts. They were discovered by Bougaiuville in

NAVY, in the usual sense of the worl, the whole body of the ships of war belonging to a nation or monarch. In no state of society, however primitive, has man long learned to navigate the rivers evil passions have involved him in contention and war. It is not enough that murder should stalk the earth, and make its fields drink the blood of him to whom it was given as a heritage; the ocean, already terrible in its own horrors, is also too often crimsoned with the same carnage.

It may, perhaps, be questioned whether maritime pursuits be not more likely to produce discord than those of the land. The shepherd subsists upon his flock; it famishes him at once with food and raiment; the cultivator lives upon the produce of his field; but the moment that the merebant goes forth to exchange his superfluity for the superfluity of others, there arises a collision of interests; that spirit of cupidity which has, in all ages, characterized commercial nations, is aroused; avarice, hatred and revenge'excite to discord, and the seeds of war are already sown. Thus we are told that the Phoenicians, in their solicitude to retain the vast monopoly of trade, for which they were indebted to their enterprise and industry, not only concealed studiously the courses of navigation by which they arrived at the remote countries with which they traded, but, if followed by strange vessels, would seek to mislead them, conduct them into dangerous situations, and even risk the loss of their own vessels to effect that of their pursuers. To complete the discouragement of their commercial rivals, they plundered and destroyed every foreign vessel and crewthat they met witha system which doubly favored their desire of gain. Such is the origin of maritime war and naval armies.

The earliest instance of naval warfare recorded in history, is that of one Erythras, a prince who made himsen' master of the Red sea, and monopolized its commerce, to the exclusion of the Egyptians, who were only allowed to navigate it with a single ship. The Egyptians, thus restricted, are said to have partially evaded the edict, by making their single ship of an musual size; much as the British did, in past centuries, with their single annual ship to Puerto Bello. , Erythras is not, however, allowed the undisputed honor of originating naval war. He has a formidable competitor in Jason, and two still more. a so in Neptune and Hercules. Without attan impting to settle the respective claims of

these nautical worthies, we will content ourselves with endeavoring to discover the nature of naval war in the earliest ages of

history.

The most noted battle of ancient times and seas that surround him; before his is that which took place between the Greeks and Persians at Salamis, five centuries before the Christian era. The situation of the Grecians struggling to preserve their liberty from the threatened voke of Xerxes: the generous rivalry of Aristides and Themistocles: the hereism of Artemisia, with many romantic meidents, combine to shed a strong interest over this famous engagement. The Grecian fleet consisted of three hundred and eighty ships, all, doubtless, very small, as we are told that the largest galley was of but fifty oars, with only eighteen fighting men. The vessels were without decks, and the contest was decided either by running each other down, or else by grappling and fighting hand to hand, the victory declaring for those who excelled in numbers or in personal prowess. The fleet of Xerxes: was superior in numbers, as will as in the size of its ships, and as his army was unmerous beyond anything known in modern times, it was easy for him to man it powerfully. But the situation of Salamis favored the Greeians, as it hindered the Persions and their allies from displaying their whole force. The Greeks having determined to give battle rather than await it to their inevitable destruction, Thera, stocks bore down with the full impetus of a fresh breeze, which blow regularly every day. The Persions received the first attact undaunted, and even returned it with so much vigor that the Greeks began to falter, when, according to Herodotus, an heroic Athenian by the name of Pallene, retrieved their situation by boldly steering his galley into the midst of the enemy, and drawing his countrymen after him to his rescue. And now the height and sluggishness of the Persian vessels, even their excessive numbers thus embarrassed in a narrow strait, and the disconnected efforts resulting from the various nations of the allies, and from a plurality of commanders, threw them into utter confusion. Moreover, among the Persians and their allies, there was much disaffection; while, on the contrary, the Greeks had a good cause, and every thing at stake; their vessels, too, were light and manageable, and they were expert in manonvring them; they did every thing in good order; finally, they had but one supreme commander, and he Themistocles. Under such circumstances, it is not much

to be wondered at that they should have proved victorious.

There are one or two incidents, which took place during the battle, not a little characteristic of the mode of fighting and of the manners of the times. We are told of a Grecian galley being sunk by an Ionian of the Persian fleet; this, in turn, sustained a like fate, being run down by a galley of Egina. But, before their vessel sunk under them, the Ionians had time to. throw themselves into the ship of their autagonists, and by the desperate bravery to which they were urged by their situation, seconded by their desterity in the use of the spear, for which they were famous, gained possession of the Eginetic galley. Still more peculiar was the stratagem by which the queen Artemisia contrived to escape. She had opposed the engagement; but when it was determined to give battle, she displayed greater valor than any of the followers of Xerxes, so that he took occasion to say, as he viewed her conduct from his throne on a neighboring eminence, that only the women of the flect behaved like men. This unsustained courage involved her, at length, in imminent danger, and she found herself hotly beset by many enamies, when, as the only means of escape, she resorted to the stratagem of hoisting Greeian colors, and attacking a Persian ship, commanded , by one Damasithymus, king of Calynda, which she speedily sent to the bottom. This deed, doubtless, cost her the less, that Damasithymus had once been her enemy. Her pursuers, seeing this, believed her esset to be one of their own fleet, and so Artemisia escaped.

In the two centuries succeeding this batde of Salamis, many isoprovements were introduced into naval warfare. They originated chiefly with the Carthaginians, who had inherited all the commercial skill and enterprise of their Phonician forelathers. No longer contented with the -rade of Egypt, Phemicia, the Red sea, Gaul, Spain and Mauritania, and the narrow limits of the Mediterranean, they stood beldly forth beyond the Pillars, hitherto esteemed the ne plus ultra of the earth. and carried their commercial enterprises to the western coasts of Europe and Africa, and even to the British isles. So extended a commerce, and the spirit of monopoly with which it was carried on, led to the creation of powerful armaments; which were also necessary for the protection of the many colonies which Carthage possessed in Spain, Sicily, and elsewhere.

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The galley was the form of ship used in war by the Carthaginians. triremes, as they were called by the Romans, from their having three rows of oars, were usually one hundred feet in length, ten in breadth, and seven in height. This form, long, low, and narrow, though not adapted to encounter a stormy sea, was admirably suited to move rapidly in smooth water; for whilst the small breadth opposed little resistance in dividing the water, the extreme length made room for many rowers, and gave great impetus to the attacks of the beak. The bow curved upwards, forming a circular beak, which was faced with iron; or else it receded suddenly, having a single sharp point, like a ploughshare, projecting at the surface of the water, and intended to open the side of an antagonist, and cause her destruction. Frequently the beth was formed to represent a lion, tiger, or other rayenous beast calculated to inspire terror It was always surmounted by the flational emblem; thus an owl-stood on the prow of an Athenian galley; a cock on a Phosnician or Carthaginian, and the cagle on a Roman. Here or at the stern were also placed the ensigns and standards, and trumpeters, standing beside them, sounded their shrill blasts to inspire comage at the moment of onset. From the bow to the stern there extended a flooring or deck, which stryed as a battle-field for the mailed and heavy armed soldiers who fought. The stern was covered with a circular slad or pavilion, righly carved and decorated with streamers and troplics. Under this was placed the tutela, representing some patron deity, to which each fices and prayers were offered, and which was held so sacred as to furnish a sanctuary to whoever took refuge there. From this elevated station, too, the commercer surveyed the fight and directed the efforts of his followers. There were two disfinet classes of officers and men in each galley. The commander of the soldiers was supreme, and tader him the pilot. who took his station abaff, at the side of the steersman, directed all necessary evolutions and managives. The pilor was assisted in the command of the sailors by his mate, and by the agiltable or cucourager of the rowers, whilst a nousician marked the memure of the sanke, and, by the harmony of his voice and instructiont, inspirited the rowers when weary with toil. As for the rowers themselves, they were placed below deck on rows of benches, ascending above each other diagonally, the bench of one serving

for the footstool of his comrade immediately above and behind him. We read of five benched, eight benched, and even forty benched galleys; but this cannot possibly mean, as many suppose, so many distinct banks of rowers. L'Escallier very reasonably suggests that this enumeration must have applied to the various divisions of rowers, similar to that of the batteries of modern ships; for, in an ship is no greater absurdity than a galley with ten ranks of rowers. In proof of this, the medals, which in all cases copy the noblest forms, show us no galley of more than three rows; and even in this case, the upper tier must have been very unwickly, for the length of the our necessarily increased with each ascending bench. Hence it was not only necessary to place the stoutest and most athletic rowers at the upper oars, but likewise to cloud the handles of them with lead, in order to counterbalance the great weight without. We have already said that these rowers were distinct from the soldiers who fought, for rowing was esteemed a great drudgery, and was not unfrequently, in ancient as in modern times, the punishment of malefactors, who were chain-ed perpetually to the benches on which they rowed. It was, perhaps, from the infusion of such unamiable materials, that sailors came to be esteemed infamous and wicked wretches, totally destitute of humanity and religion. Galleys were sieered with oars run out on the quarters, and i: maged by men standing near the poots, and ready to obey their orders. Sails were also used to case the rowers, and attain a greater velocity, when the wind' avas fair; both masts and yards were, however, always taken down and stowed out of the way, on the eve of an engagement, and the oars alone used, thus enabling the galley to move and turn without reference to the direction of the wind. These sails were sometimes made of variegated stripes, and we occasionally read of the galley of an emperor or an admiral having sails of purple, embroidered with The body of the vessel was tastefully painted, representing gods, animals, or historic scenes, and sometimes the oarblades were richly gilded.

Such were the locomotive means of the galley. Its means of offence consisted in the various weapons and missiles used on land. Javelins and arrows were discharged in showers from the deck, or from turrets at the bow and stern. As a

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protection from these, a curtain of hides was used, from behind which the soldiers discharged their missiles in return, or thrust with very long spears, used only at sea. In the centre were engines from which rocks were projected of sufficient size to sink a ship; and, as the combatants approached, great masses of iron, from their form called dolphins, were let down from the elevation of the mast-head, and American first rate, we have ten or more *sometimes passed through the bottom of divisions of cannon; and a ten decked an adversary, to his inevitable destruction. an adversary, to his inevitable destruction. Battering rams, which were beams pointed with iron, were also suspended from the mast, and forced with destructive effeet against the enemy's side. But the great means of annoyance was the attack of the beak; and, in order to make it with complete effect, it was very desirable to gain the wind, so as to bear down upon an adversary with the greatest velocity, demolish his ours, open his side, or even overturn and run down the vessel. Earthen pots of live ceals and pitch, and of combustibles ready to combine and burst forth in flames, were either cast from ship to slap, or so suspended over the beak, that when the shock took place they would fall on the deck of the assailed. It is said of Hamubal, an ancestor of the great Hannibal, that be threw, on one occasion, pota containing live snakes upon the enemy's deck, and, as he had conjectured, filled the crew with horror at so unwonted an attack, and availed himself of their consternation in securing the victory. Thre slaps were also used at this carly period with destructive effect. The line of battle was usually triangular, the admiral's ship being at the angle in advance, and the line of store ships forming the base. Before engaging, it was usual for the admiral to pass in a small boat throughout his fleet, haranguing his followers, and urging them to do their duty. Thus inspirited, a shout of anticipated triumph would pass from ship to ship; and when the gilded shield was at length displayed as a signal for battle, the shrill trumpets sent forth their blasts, and the combatants rushed to the encounter, rending the air with shouts and war songs. The battle won, the victors returned to port, towing their prizes, their ships being decorated with fragments of the wrecks, themselves crowned with laurel, and singing passes to Apollo. The richest of the spoil was reserved as an oblation to the gods, and broken, or even entire galleys were placed in the precincts of the temples.

Such was the state of naval warfare, until the Romans, incited by their contest

with Carthage for the possession of Sicily, first turned their attention to naval affairs. Such was the invincible daring of this nation, that, having scarce ever dreamed of navigation, they yet resolved to attack the Carthaginians on their own element. At this conjuncture, a Carthaginian cruiser, accidentally stranded on their shores, furnished them with a model. But where should they procure mariners to man their calleys? This difficulty yielded to Roman resolution. Benches were established on the land; the recruits were placed with , their ours, as if embarked, and an officer, standing in a conspicuous position, made signs with his hand, to indicate the instant when they should together dip their oars, and then sweep them with a concerted movement of the arms and body. In this way, a sufficient number of men were taught to row, during the construction of the galleys, and a fleet of 120 vessels, with nearly 40,000 oarsmen and soldiers, was equipped for sea. . Before sailing, however, to meet the enemy, these hasaly manutactured sailors were exercised for some time on board the galleys. After all, it was probable that this fleet was as awkward and unarmageable as might have been expected, and that the consul Dudius, ere he had long been to sea with it, discovered that, though he had copied much from the Carthaginans, there was much - ill that had escaped him. For we and him soon calling up his ingenuity to devise some means of neutralizing the superior skill and seamanship of the Carthaginians; this he effected by the invention c. the corrus. It was a bridge or platform planted at the bow, and which could be turned at pleasure from side to side, or hoisted up to a mast creeted for At length the two fleets the perposet cana in sight, and prepared for battle. The Carthaginians, being superior in numbers, and still more so in experience and skill, were filled with contempt at the rude appearance of the Roman galleys, and their more clumsy evolutions. They were certain of victory. Nevertheless, as they approached nearer, the askward appendage at the bow, which had at first (Acited ridicule, began to inspire mistrust. This was augmented when they found that the Remans paused not to discharge their missiles, but, receiving those of the Carthaginians, steered boldly on, until each Roman galley had struck an enemy, when the ropes that held the corrus suspended to the mast being loosed, it fell with fatal force upon his deck, crushing

entrance, 'The bars of sharpened iron with which the bottom of the bridge was armed, transfixed the deck, with those who stood in the way, and the two galleys remained firmly grappled. And now the Romans, receiving the enemy's arrows on their shields, raised their war cry, and rushed, sword in hand, to the assault; seamanship and skill were set aside, and courage and personal provess became the arbiters of the contest. The former confidence of the Carthaginians was only equalled by their present consternation. Great and terrible was the slaughter. Earlity galleys were either taken or destroyed, among them the famous galley of Hamiltal, the Carthaginian admiral, which had once belonged in Pyrchus. The admiral himself narrowly escaped in a small bont. This victory, if we consider the circumstances under which the battle was fought. is inferior to none in history. It was duly estimated at Rome; the most extraordinary honors were decreed to Duilins, he being the first Roman who enjoyed a bayal trium h. A rostral column was also creeted to him, upon which were placed the beaks of the Carthaginian galleys. This colemna rostrata is still seen and admired in old Rome, where the stranger does not fail to visit it, and where, turning from the humiliating picture of modern degencracy, he traces with pleasure an inserintion which recalls the best days of the republic.

From this time until the invention of cannon, naval warfare underwent little variation. The emperors of Constantinople continued to observe the same system of annoyance and defence in their may, which must have been considerable. as we read of an expedition sent to subdue Crete, consisting of 200 ships and 49,500 men. They wisely reduced tho In ight of their galleys, using none but cromones of two tiers, having in all 100 oars, rowed by as many men. A level platform covered the rowers, upon which the soldiers drew up and fought as upon land. The ceptrin stood at the poop be-tween the two steersmen, whence he directed the efforts of his followers. Thence, tee, he discovered and obeyed the signals of his crimical- an invention already introduced to signify orders at a distance. The line of battle was somewhat changed; from a triangle it had be-, come a crescent. The horns pointed rearward, and the admirals stationed in the centre began the attack. The same of means of annoyance were still employed; those who had collected to defend the arrows were shot from bows and cross-

bows; jayelins were discharged from engines; and huge rocks were projectedfrom machines, which, we are told, often found their way through the deck and bonom of the hostile vessel, destroying both galley and crew. But the most dreading weapon then in use was the iron tube, from which the Greek fire was projected in streams upon the vessel and crew of an enemy. This combustible, which had been much earlier used, in the less destructive form of missiles, was of such fearful activity that nothing could resist it, and water, instead of extinguishing, did but augment its fury. Terrible must it have been to the northern pirates, of whom we are tel l'that finitating those of their country-men who had invaded Europ by other romes, they descended in cano's, by the Borysthenes, into the Black sea. Traving plundered its shores, they were bastening to seize upon Constantinople, when they were met by the fleet of the emperor. as they paddled their canoes to the assaule, when they were met by well-directed streams of liquid fire, issuing from the prow of every Greeian galley. Consternation scized them, and they plunged into the sea, happy in having yet the alternative of a choice of deaths. Though the attack of beaks was still continued, less importance was now attached to the point of gaining the wind. In order to escape from the torture of the fire-tube, it was more usual at once to grapple broadside to broadside, and, while the rowers ascailed , each other with pikes through their 'rowports, the soldiers rushed, with sword and buckler, to the attack, tighting desperately. hand to hard. Hence it is that, in the history of those times, we so frequently read of ten, twenty, and even thirty thousand men, slam in a single naval encounter.

At length, a great revolution in naval warfare was brought about by the introduction of cannon. They were first used by the Venetians against the Genoese, in 1370. It is a little singular, when we conraider their efficacy for the destruction of ships, that they should not have been employed for this purpose until a whole century from their first use in Europe by the Saraceus, in the defence of Niebla, and nearly thirty years from their general in-troduction, as an implement of war on land, at the siege of Algeziras. When first introduced, the cannon were mounted on the deck which covered the rowers, . and were either made to protrude over the rall, or else were pointed through portholes pierced through the bulwark which defended the crew. In the gullens, which was first used at Lepanto, there was one row of ports between the oars, and then batteries of heavier cannon upon the poop and forecastle. Notwithstanding all these innovations, we shall yet find that the aucient mode of naval warfare was, in a great measur, maintained in that renowned naval battle, the battle of Lepanto.

, The battle of Lepanto was fought between the papal, Venetian and Spanish fleets, and that of Selim, sultan of Con-Hardly had they raised their war-shout, estantinople. In September, 1571, the Christian theet was collected, and made ready, in the port of Messina. It consisted of 250 ships, manned by 50,000 men, and was placed under the command of den John of Austrie, natural son of Charles V, for whom expressly the fitte of generalissimo was then invented. The pope, having proclaimed a general season of fasting and prayer throughout Christendoni, sent a strong corps of ecclesiastics to officiate in the fleet, and a consecrated standard to be displayed from the ship of the admiral. Absolution was promised to every sinner who should light for the faith, and heavon we opened to the shin. Don John was urged to give immediate battle, and to feel secure of victory. Selim, on the other hand, was not backward in preparing to meet the danger. Though part of his forces was still employed in reducing the island of Cyprus, which was the original subject of contention, he yet succeeded in coripping a fleet still larger than that of the Christians. It was intrusted to the packy Ali, who proved himself well worthy of the charge. Nor was the sultan slow, on his side, in promising all sorts of good things to the defenders of the faith, and in picturing the joys of a Mohammedan paradise, as the prize of martyrdom. Both parties were to fight the battle of the Most High. The two fleets came together in the gulf of Lepanto. What the Christians wanted in numbers, they made up in superiority of equipment. The prows of their galleys were closer, and better defended, and their soldiers betster provided with offensive and defensive

² The Greek fire has lately been reinvented by on American, of the name of Brown. He diseneges it, like any other fluid, from a common engage and, from its resinous and cohesive hathe mejects if much further. As it passes out to tube into the open air, a match, placed at the end, converts it into a liquid fire, of a destruetis concrety, not at all inferior to what is attributed to that of the Greeks. He has offered his invention to our government; and, as connected with a seem of steam-batteries for the defence of our for st, it would prove terrally efficacious.

armor. They made general use of helmets, coats of mail and fire-arms, whilst many of the Turks defended their bodies with large leathern shields, and had no more destructive missiles than arrows. Moreover, fortune turned against them at the moment of onset; for the wind, which had hitherto been favorable to them, now bley in the sails of the Christians. battle, as of old, began with the admirals. Don Juan and Ali, after a short cannonade, closed and grappled. Both crews rushed to the assault, meeting, in deadly struggle, upon the gunwales. Three times did the Spaniards gain the deck of their adversary, and as often were they driven back. Perhaps the Turks would have followed up their advantage to complete victory, had not don Juan, in that critical moment, received a timely reinforcement of 200 men. By their assistance, the Turk was again bounded, and no longer with doubtful success. The slaughter was indiscriminate and terrible, the crescent being quickly lowered, and replaced by the cross, whilst the severed head of Ali, planted on a pole, and hoisted at his own masthead, filled the breasts of his followers with momentary consternation. Scarce was this result manifest, ere the cry of I ictoria! rictoria! pealed from the ships of the Christians; and, led on by a host of heroes—a Colonna, a Vemero, a Doria they rushed furiously upon the enemy, Nor did the Turks tamely yield the victory, which they had, of late, so often won, The ships grappled; the enemies fought hand to hand, and sword to cimeter; pikes, javelit an 'arrows, cannons, matchlocks and arquebusses, aided the fury of the combatants. Turks and Christians had never fought so valiantly, though that was; emphatically, the age of during. At length, whilst the result was yet doubtful, the Turkish galley-slaves, taking conrage at the partial success of their fellow-Christians, and dreading the effect of the reverse upon their own condition, suddenly rose, broke their chains, attacking their masters with them, or with whatever other weapoes fury furnished them, and repaid them, in a few short moments, for years of crucky. In an opposite manner, the criminals who performed the same office at the oar in the Spanish and Italian galleys, having asked leave of their officers, and been unchained and armed, boarded the enemy with a fury rendered irresistible by despair, a recklessness which had nothing to lose, and the double hope of meriting lib-; erty or obtaining martyrdom. At length, the few Turks that remained began to

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think of flight. Thirty galleys alone escaped to Constantinople, through the skill of the intrepid corsair Ulocciali, who carried away the standard of Malta, as a trophy.* A few reached the neighboring shore, and abandoned their ships; 130 were taken; the rest were either sunk, burnt, or buttered to pieces; 10,000 Turks were taken, 25,000 slain; 15,000 Christians were released from the servitude of the oar. Nor was the victory cheaply purchased---10,060 Christians were among the number of the victims. Beautiful had been the display of the encountering fleers, but now how changed the spectacle! Shattered fragments of wrecks and masts covered the sen, which was every where streaked with human blood, or strewed with limbs and distigured corpses. The whole of Europe resounded with shouts for this glorious victory, and with the praises of its hero. He was pronounced the greatest warrior of the age; the Chrisdians of Macedonia and Albania tendered him the sovereignty of their country; and, as for the pope, when the news reached him, he is said to have exclaimed, in a holy cessasy, "There was a man sent of God, whose name was John."

The rapid improvements which the discovery of America effected in naval architecture, for commercial purposes, extended equally to its other branches. A gradual improvement took place in the form and adaptation of ships of war, and they were, at the same time, progressively increased in force and size, until, before the close of the sixteenth century, we already read of Spanish and Portuguese ships of eighty and ninety gans. In the last century, ships of war at length attained a size which may be considered as a maximum; for nature herself has set bounds, to surpass which would be, if not impossible, at least inconvenient. Many harbors exclude vessels of excessive depth; the uses of. which ships are made do not exceed a certain growth; and man, who is to construct, equip, and finally maneuvre these won-

[?] The corsair carried away a more precious treasure in the person of the poet-hero Cervantes. His intreputity had harned him emeng the first on board of the enemy's galley, to whith his own was grappled; but his comrades were reputised, the grapuels broken, and he, left wounded on the deck, was carried away by the renegado, as he himself tells us, in the beautiful episode of El Captire, "the only captive among so many rejoicing Christians." The matter might, however, have been worse. Had Cervantes been slam, instead of taken at Lepanto, we had never known the valiant don Quivote, nor the facetious Sancho.

drous machines upon the deep, though able to effect much by an advantageous application of his strength, and by concerted efforts, is yet a being of limited powers. The English Caledonia, the French Commerce de Marsvilles, and the Santissima Trial kid, may almost be looked upon as magnificent monsters. Nor have we, perhaps, acted wisely in exceeding all these, in the great ship now building at Philadelphia; though the same admirable symmeire, which distinguishes our ships of the line, is still observed in her. The ship earrying one hundred guns, on three uniform decks, may be considered as the best adapted to unite formidableness and effi-

When this increase of siz took place; the oar ceased to be a fit agent to move so weighty a machine, and it only remained, by the adaptation of sails, to make the most of that which nature has placed at our disposal, in the restless and ever-moving chancht which surrounds us. Galleys have been long discontinued on the ocean, and are now only used in the Mediterra-. nean, where immemorial usage renders every thing hereditary. With this revolu-tion in the manner of propelling vessels of war, on equal one was introduced in Their augmentthe raeshod of fighting. ed size rendered it more inconvenient to grapple and fight hand to hand, and cisked the destruction of both ships, if the weather were tempestuous. Hence this mode of combat was rarely resorted to; and battering with cannon, at 'n favorable distance, until one party or the other struck, · became the ordinary mode of mayal warfare. This we shall now exemplify, by briefly describing the present mode of engagement, and relating a few instances of modern mayal battles between single ships and fleets.

When two adverse, ships come in sight of each, other upon the ocean, accident decides, family, which is to windward. be to windward, or to the side from which -the wind comes, is always esteemed an advantage. If the weather ship be of inferior force, it enables her to keep out of ac-' tion much longer, and, though a poorer sailer, she may do so until the intervention of night increases the chances of escape, If, however, the weather ship be of superior force, she is enabled to bear at once down, and direct her head upon the ene-· my, and, having the advantage in sailing, We will, must soon be alongside of her. however, suppose a case in which two equal ships incet, and are mutually anxious to engage. Then, also, the weather-

gage is an advantage, for the ship to leeward, careening to the breeze, exposes her side below wind and water, and, if struck there, and afterwards forced to tack and change her careen, or if merely brought upright, the shot-holes thus made are thrown out of the reach of repairs from without, and may cause her sinking. The ship to windward, on the contrary, has her lee-side exposed to the attack, and the ordinary water-line depressed below the surface, in proportion to the strength of the breeze. In this situation, if she receives dangerous shot-holes at the water's edge, by changing her tack, she may bring them above the surface, so as to stop the Being to windward, moreover, confers the advantage of heaving up at pleasure to cross an enemy's bow, or stern, for the purpose of a raking fire.

Assuming the advantage of the weathergage, let us prepare for action. Topsails, top-gallant-sails, jib and spanker, with the courses hauled up, ready to be set again, are good sails to fight under, for with them your ship is under perfect command to advance, manœuvre, or lie to. If there is an appearance of squally weather, it is well to have a reef in the topsails, in anticapation. The crew are called to quarters by heat of drum, every man going to the station which has been rendered familiar to him by frequent training, under the eye of his officers. The commander, standing in a conspicuous station on the quarter-deck, watches his own ship and the enemy, and conveys the order that the occasion may require by voice, or through the medicas of his aids. Under him, the first lieutenant commands the offensive and defensive operations, and effects the various evolutions which he may direct, in relation to the position of the ship. The clues are stoppered, to keep the sails spread in the event of the sheets being shot away, and the yards are hung in chains, to obviate a like inconvenience from the cetting of the ties. The carpenter rigs the pumps to prepare for a leak, collects his shot-plugs to stop holes in the side, and tishes of wood to strengthen a mast, or yard, that may be wounded, and in danger of falling. surgeon prepares, in the cockpit, to relieve the wounded. Tubs of water are collected in the tops, channels, and on deck, to be ready to extinguish tre; the decks are wet, to prevent the explosion of powder, and put out sparks that may fall there, and also sanded to prevent the men from slipping when splashy with blood or water. Finally, plenty of wads and shot, round, grape and camster, are collected beside the

guns, and the magazine is opened and lit by the gunner and his crew, who prepare to pass the cartridges to the powder-boys.

And now, having given three cheers, you bear down upon the enemy. It is a great object, in battering from ship to ship, to rake your enemy, if possible; that is, to get across his bow, or stern, out of reach of his guns, whilst yours sweep the whole length of his deck, with final execution. If it is desirable to rake your enemy, it is equally so to avoid being raked in return. This double advantage can only be attained by superior sailing, or by great skill in mane aveing. In directing your fire, it is best to sain between wind and water, and also in the direction of the masts, for in this way the enemy may be soonest disabled, and a victory gained with the least destruction of life. It, on the contrary, your own spars be so disabled that the enemy, having the worst in other respects, might vet effect his escape, from your inability to make sail in pursuit; or even in the more desperate case of your being every way worsted, you may yet profit of your situation to bear down and board, as the last alternative. In the east of this last, chance, a hopeless cause may sometimes be restored; for, in boarding, headlong valor, offener than numbers, decides the struggle. When the enemy signifies that he yields, by hauling down his colors, a prize-presterand crew acadetailed; the prisoners are removed and chained, and as much exertion is made in repairing damages as was before exercised in effecting them.

Of all the naval battles, in ancient or modern den 8, nobe has ever been nobre obstinately contested than that which took place, during our revolution, between the Bon Howne Richard, as she was called (after doctor Franklin's Poor Richard), and the British frigate Scrapis. The first was commanded by commodore Paul Jones the last by commodore Pearson, a very distinguished officer. The Richard carried fiftysix guns, and 580 men; the Scrapis tiffynine gans, and 320 men. The former was old and decayed, with a motley battery, throwing only 202 pounds at the single broadside, and twenty of her liest men, with the second lieutenant, were absent during the whole action. The Scrapis, on the centrary, was a new ship, of approved construction, considered the fastest sailer in the British navy; and, besides her superiority in number of guns, they were of heavy calibre, throwing 340 pounds at a single broadside. Jones, having borne, down to cut off the Baltic fleet from the harbor of Scarborough, the Scrapis and

her consort stood out, to divert the attention of the American ships, and give the convoy time to escape. In this way the battle began. One of Jones's consorts engaged the consort of the Serapis; the other took no part in the action till towards its close, when it fired, with equal injury, upon both. No guns were fired from cither ship until they approached within pistol shot, when Pearson cried out, "What ship is that?" This was at eight in the evening. The sky was beautifully clear, and the sea smooth; -- the moon, just then rising, lit the combatants, whilst it enabled crowds of people, collected on Flamberough Head, to watch the progress of the When commodore Pearson had Waited in vain for an answer to his challenge, the Seraps opened a terrible fire. upon the Richard. It was at once returned; but three of the Richard's heaviest guns burst at the discharge, not only becoming lost for the rest of the field, but destroying mere men than the whole broadside of the Scrapis, and scattering Ceath and confusion on every side. The battle had not continued long, ere Jones found that he was suffering so much from the Scrapis being able, by her seperior sailing, to choose raking positions, that he would soon have to yield if the contest continued so unequal; he therefore ordered his ship to be laid on board the Sere-This maneuvre did not succeed, for the Richard could not bring a single gun to bear. Jones therefore backed his sails, and sheered off, when Pearson, thicking the American was about to yield, because his fire had ceased, asked him if he struck; to which Jones answered, that he had not yet begun to fight. He was not long, however, in making a commencement; for, having sailed by the Serapis, he caree more put his belin up, and ran across her bow. Her jib-boom came over the Richard's peop, and Jones himself assisted the master in making the jib-stay, which had been shot away, and lung down upon his deck, fast to his mizzen-mast. same time, the anchor of the Serapis booked one of the Richard's ports, so that when presently Pearson anchored, to let his enemy sweep clear of him with the tide, both ships swung beside each other, the stern of the Richard to the bow of the Scrapis, and their starboard sides so close together that the guns met, muzzle to muzzle; the rammers entered opposite ports, and were dragged from those who used them, who presently began assaulting each other. It is a singular proof of the coolness of Jones that, while engaged with the

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master in making the vessels fast, he should have thought to check him for his profanity, saying, "Mr. Stacy, this is no time for swearing; in the next moment you may be in eternity. Let us do our dury." Thus grappled, the two ships kept, up a long and desperate struggle for victory. In battering, the superior metal of the Serapis gave her a decided advantage; her shot went through and through the rotten sides of the Richard, cutting the men in pieces, and destroying them with splinters. The rudder was destroyed; the quarter beat in; and while the water entered on every side, one of the pumps was shot away. There was already four feet of water in the hold, and it gaining. Upon this, the carpenter, instead of concealing the ship's situation from all but the captain, cried out that she was sinking. The panic spread. The master-at-arms, moved by the supplications of a hundred English prisoners confined below, released them from irons; and the gunner ran terrified on deck, and bawling for quarters. Among the prisoners thus left at large, one of them, a ship-master, crawled through the ports to the Scrapis, and told captain Pearson to hold out, for he had begun to meditate a surrender. Nevertheless, Jones quickly recovered from his desperate position. He punished the coverdice of the gunner by throwing his pistels at him, one of which fractured his skull, and precipitated him down the hatchens. At the same time, he repulsed an attempt to board from the Scrapis, and removed the dauger of so many prisoners at large be-. low by employing them at the punge, and telling them to work or sink.

Whilst the battle had taken this unfavorable turn below, the face of affairs was reversed above, by the exertions of a few men stationed in the tops of the Richard. According to Jones's orders, they had just directed their fire into the enemy's tops, auntil not a man remained dive, except one in the fore-top, who kept loading his musket, and dodging, now and then, from be-hind the mast, to fire. This bold fellow was at length struck by a ball from the Richard's main-top, and sent headlong up- . on deck. And now the exertions of the sharp-shooters were all turned to clearing the decks of the Scrapis. Some of the bravest even passed, by the yards, into the tops of the Scrapis, whence they threw. stinkpots, flasks and grenades down-her hatches, stiffing her men, and firing the ship in various directions. At this time, both ships having taken fire, the cannorade was suspended, to extinguish it. Jones

soon renewed it, however, from some guns which alone remained in order on the forecastle, and which he directed himself. At , the same time, a grenade, thrown from the Serapis's top, having bounded into the lower deck, and fired some loose powder, this communicated to the cartridges, which had been brought from the magazine fastor than they were used, and laid carelessly upon the deck; and a general explosion took place, by which every man in the neighborhood was blown to pieces, or dreadfully burned. No way remained for commodore Peorson to save the remnant of his crew, but to yield; but even this it was not easy to signify, for none of his crew would take down the flag, which had been nailed, before the action, to its staff; and he was compelled to perform the perilous and humiliating task with his own hand. Thus ended the battle of the Bon Homme Richard and Scrapis. The victory was dearly bought, for the carnage on both sides was terrible. The Bon Homme Richard lost three hundred men, in killed and wounded; and nearly all the last died, from the indifferent care which they received, and the dreadful gale which followed the battle. The loss of the Serapis was nearly as great. Of the men who were blown up, some lingered until the flesh dropped from their bones, dying in excludiating agony. The Poor Richard, asseiled by fire and water, was abandened to her fate, and went down, carrying with

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her many of her wounded crew.

The battle of Trafaigar, which took place not many years after, is a renowned instance or neval war by fleets. It occurred near Cadiz, between the allied French and Spanish fleets, of thirty-three sail of the line, and the British fleet, of twentyseven sail. The force of the allies was far superior in ships, guns and men, and they had a brave and skilful communder in admiral Villeneuve ; but there were circumstances that more than counterbalanced the disparity. The Spaniards had no national interest in the struggle, and between them and the French there was no cordiality. The allied ships, too, had been hastily related, and, having just put to sea, were very inefficient; for their crews, belonging, as they did, to nations which had little commercial marine and few seamen, were made up, in a great measure, of soldiers, who had never been long enough embarked to get their sea legs. The British ships, on the contrary, were in the linest order; their crows had been actively employed during years of war; they were commanded by veteran officers, each a

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hero of many battles, all obeying one only admiral-Nelson of the Nile.

Having taken his station off Cadiz, Nelson waited the sailing of the enemy, who were ignorant of his force, and had determined to put to sea. October 19, 1805, the frigates in shore repeated the signal that the enemy were coming out; on the 20th, they were all at sea off Cadiz; and on the 21st, after much managuvring, the two fleets came in sight, with a mutual determination to fight. This day had been a festival in the family of Nelson, because it was the anniversary of a victory gained by his uncle. To Nelson, whose peculiar mind was no stranger to sujerstition, the onen was most welcome. Yet, though he expected to win the battle that was about to be tought, he felt equally sitre that he would got survive to enjoy it. knew that his life would be aimed at by the Tyrolese sharp-shooters of the enemy, and, far from dreading it, he seemed to desire to die in the moment of victo-He wore, as usual, his uniform of admiral, covered with stars and decorations, which could not fail to attract the bullets of the ritlemen, and which tilied his followers with appachension. Act it was in vancto ask him to remove them. Even when persuaded by Hardy to order other ships to pass ahead, he still carried all sail on the Victory, thereby rendering it impossible for the order to be obeyed,--The athed fleet formed their line of battle on the larboard tack, the wind being at south-west. Trafficar lay to leeward, and the bay of Cadiz was open for escape. The slips were drawn up in a double line in close order, the intervals in the first line being tilled by the ships of the second, with room to fire between. This combined the advantage of a dense, massailable column, with a sufficient interval to obviate the danger of contact among the ships. Nelson bore down also in a double line, bimself leading the left of fourteen ships in the Victory, and Collingwood in the Royal Severeign, the right line of thirteen ships. His object was to break the line of the enemy in two points, separating and overpowering them in sections interior to his own. Above all, he directed his captains to remember that his object was a close and decisive action; and that if his signals were not seen, no captain could go wrong in placing himself quickly and closely alongside an enemy. The wind was light, and the British fleet, under a crowd of sail, bore gallantly before it, rising and falling gracefully upon the long swell that rolled towards the bay VOL. IX.

of Cadiz. Nor was the array of the at lies less noble and imposing, as they firmly awaited the approach of their enemies, drawn up in their double line, and with the sun shining full upon their white sails and frowning broadsides. The scenethe purpose - were full of sublimity; and to Nelsoa, who, independent of his thirst of glory, fancied that in destroying Frenchmen, he was about to serve humanity, this moment must have been the proudest of lus life. As he gazed upon his anticipated prize, he asked captain Blackwood what he would esteem a victory. answer was that, considering the noble manner in which battle was offered, the capture of fourteen sail would be a brilliant result. "I shall not," said he, " be satisfied with less than twenty." Presently Blackwood took leave, to return to his own ship, and expressed the hope soon to congratisher the admiral upon the accomplishment of his wish. Nelson pressed his hand affectionately, and said. "God bless you. Blackwood! I shall never see you again." And now, from the mast-head of the Victory was unfurled that eloquent signal "England expects every man to do his duty !" In consequence of the secand column being steered more off the wind, at a less acute angle with the onemy's line, Collingwood came much soonest into contact with it; broke through it astern of the Santa Ana, firing taking broadsides on either hand as he passed. and engaging the Spaniard to Jecward, at the muzzles of his guns. At the same time, three or four other ships gathered round, pouring their broadsides into the Royal Sovereign, "See," cried Aclson, 6 how that noble fellow, Collingwood, carries his ship into action!" And Collingwood, on his side, appreciating the feelings of his chief, was just then saying to his captain, notwithstanding the uproar and carnage, - "Retherham, what would Nelson give to be here!"---Meantime Nelson was bearing down, exposed to a raking the from all the ships under his lee, without being able to return a broadside. His secretary was killed beside him; directly after, a double-headed shot struck a party of marines drawn up upon the poop near him, killing eight of them; and in another minute, a shot passed between the admiral and captain Hardy. Each for an instant believed the other killed. At length the Victory, having run between two of the enemy's ships, opened both her broadsides with tremendous effect. Soon after, the Victory ran on board the Redoutable;

which ship was closely engaged by the British Temeraire; and, another enemy having fallen on board of the Temeraire, the whole four lay desperately grappled, broadside to broadside. Whilst to the left the Victory received and answered the fire of the Bucentaure and Santissima Trinidad, on the right she depressed her guns · so as not to send the shot through into the Temeraire. The Redoutable let down her lower deck ports, for fear of being boarded through them, but kept up a fire from the upper batteries and from smallarmed men stationed in the tops. From a generous though mistaken and Quixotic sense of humanity, Nelson made no use of small arms in the tops, either to clear the enemy's decks and pick off officers, or to silence the fire of their topmen. this fault he owed his death; for after he had twice ordered the fire upon the Redoutable to cease, because she seemed to have struck, a ball, fired from her mizzentop, which was quite close to the poop of the Victory, struck his epaulette, and entered his back. He fell with his face upon the deck. Hardy turned round as some men were raising him.—" They have done for me at last, Hardy," said he. As they carried him down the ladder, he remarked that the tiller ropes had been shot away, and ordered them to be replaced. Then with his handkerchief he covered his features and decorations, desirous now to conceal from his crew, lest they should be disheartened, what he had been unwilling to hide from the enemy. Soon after he reached the cockpit, his wound was discovered to be mortal; he felt in himself, and insisted that the surgeon should leave him, to attend those whom he might yet save. He was in great pain, and intensely anxious to know how the battle went. "Will no one bring Hardy to me?" he asked. "He must be killed! He is surely dead!" At length Hardy came, and the two friends shook hands in silence. After a pause, the dying man faintly uttered, "Well, Hardy, how goes the day?"—"Very well; ten ships have already struck," Finding that all was well, and that no British ship had yielded, he turned to speak of himself. "I am a dead man, Hardy! I am going fast! It will soon be all over with me!" Hardy hoped that there was yet a chance of recovery. He said, "O no! it is impossible. I feel something rising in my breast that tells me so." The surgeon asked him if he suffered much. He answered, so much that he wished himself dead. "And yet," he added, thinking, perhaps, of the new honors that awaited him, " one would like to live a little longer. - Cap- . tain Hardy, having been again on deck, returned, at the end of an hour, to his dying friend. He could not tell, in the confusion, the exact number of the allies that had surrendered; but there were at least titteen; for the other ships had followed their admirals into action, breaking the enemy's line, and engaging closely leeward, in the same gallant style as the Victory and Sovereign. Nelson answered, "That is well; but I bargained for twenty." And his wish was prophetic; he had not miscalculated the superiority of his followers; twenty actually surrendered. Having ordered the fleet to be anchored, he again spoke of himself.--" Don't throw me overboard,-Kiss me, Hardy." Hardy knelt down, and obeyed in silence. "Now I am satisfied. -Thank God, I have done my duty." ---Hardy kissed him again, received his blessing, and then took leave of him for

Since the battle of Trafalgar, naval war has undergone but slight modification. The English, contented with beating the French wherever they met, took little pains to increase that superiority which was already so decided. With its, however, the case was different; and when, in the year 1812, we were forced, weak and unprepared as we were, into a war with Great Britain, it became necessary for us to put forth efforts proportioned to the formidableness of our foe. Happily these efforts were not unattended with success. Though our ships were net on all sides with an array of numbers which compelled them to disperse, and haunt the ocean singly, depending upon their superior sailing for escape, yet when they occasionally found themselves broadside and broadside with an enemy of equal and even slightly superior force, they were, with a single exception, invariably triumphant. This result was obtained in part by an improved construction of our ships, conferring a decided superiority of sailing, which was not less useful in enabling them to escape from superior numbers, than in enabling them to outmand-uvre the enemy when it became expedient for them to engage. still more important element of success was our exact discipline, and the rapid exercise of our guns, whereby we were cnabled to deliver three broadsides for every two received from the enemy. may also ascribe something to the superior alacrity of our crews, who had entered the service voluntarily, over men who

had been compelled to serve by a forcible impressment.

Among many naval battles that shed lustre on our annals during the late war. we shall only mention two of the most brilliant, in which, though our forces were decidedly inferior, the victories were speedy and complete. One was a battle of single ships, the other of fleets.-Shortly after the declaration of war, the U. States' sloop Wasp, mounting eighteen guns, and commanded by captain Jones, fell in at sea with the British sloop Frolic, mounting twenty-two guns, and commanded by captain Whineyates. The superiority of the Frolic in metal consisted of four long twelve pounders, and her superiority in crew and other respects was proportionate. Notwithstanding this extreme disparity of force, captain Jones did not a moment decline the encounter, when the enemy offered it. The Frolic began the action with her cannon and musketry, which the Wasp did not return until within postol shot. The British fired high, and greatly crippled the spars of the Wasp, bringing down the main-top-mast, mizzen-top-gallant-mast, and caft, and thereby seriously embarrassed all her evolutions. In return, the Americans were not idle; they fired low, hulling the Frolic at every shot, and making up in celerity of fire what they wanted in force. Meantime both vessels had approached so near that the rammers touched in loading the guns, and the shot took terrible effect; especially that of the Wasp, which had ranged alread, and taken a raking position, so as to sweep the whole length of her adversary's deck. The carnage caused by this fire was so dreadful that the British scamen were driven from their quarters below. At this time captain Jones, seeing that he had the advantage, and dreading lest the crippled condition of his spars might enable the enemy to escape, dedanger which both vessels incurred, by helm was put up, and the Wasp ran across the bow of the Frolic. As they struck, lieutenants Biddle and Rodgers rushed on board, sword in hand, at the head of the boarders. They found no enemies to oppose them; the decks were covered with mutilated limbs and bodies, and were slippery with blood. Three officers alone remained standing on the quarter deck; and they hastened to throw down their swords in signal of submission. The British ensign which remained flying was quickly hauled down by lieutenant Biddle,

Thirty of the British were found dead, and forty wounded; the Americans lost but ten killed and wounded. The disparity proves conclusively the superiority of our-fire. The victory won, the wounded were dressed, and every exertion was made to clear the week to which both vessels had been so quickly reduced. The masts of both vessels had fallen by the board; and when, soon after, in an evil hour, the Poictiers British ship of the line came in sight, and bore down upon them, escape and, resistance were alike impossible.

Both were captured,

The battle of lake Eric, of which we shall now speak, was fought under singular circumstances. A few months before the 10th September, 1813, on which day it occurred, we were without any naval force upon that inland sea. The canoe of the savage or the bark of the trader had alone floated upon its hitherto peaceful surface. But now war was to visit it, and the solitudes of nature, as yet accustomed only to reverberate the thunders of heaven, were to be disturbed by the more ters rible engines of human wrath. The force with which Perry put forth to meet the British fleet, consisted of two large brigs, the Lawrence and Niagara, of twenty guns each, and seven smaller vessels, making in all a force of fifty-four guns and about six hundred men, a large number of whom were backwoodsmen, who had never before seen a ship. The British fleet consisted of six vessels, mounting in all sixty-three gons, and near eight hundred men. It was commanded by captain Barclay, a veteran officer, who had lost an arm at Trafalgar; whilst Perry, his antagonist, was almost a youth.-When the British first came in sight, they were to windward; but before the action commenced, the wind changed in favor of the Americans; it was light, with clear. and beautiful weather. At eleven, the British were formed in a line on the wind, and the Americans bore gallantly down upon them, the Lawrence, which . led the van, displaying from her musthead the dying words of the commander whose name she bore- "Don't give up the ship!" At a little before noon the fire was opened upon the Lawrence ; and it was not until some time after that her carronades would reach to return it. At length the battery was opened, and, the rest of the fleet not coming up, she remained during two hours exposed to the attack of nearly the whole British fleet. The consequences were dreadful; the ship was cut to pieces, and left a complete wreck :

every gun was dismounted, and scarce a dozen men remained, who were not among verings, flings, falcous, double dogs, and the killed or wounded. To continue the action any longer in the Lawrence was a vain exposure of her few surviving men. But Perry was unwilling to surrender himself, and notwithstanding the increased disparity in favor of the British, which the destruction of the Lawrence occasioned, he did not yet despair of the victory. He entered his boat, and put off from the Lawrence, and, under a deadly fire of grape and musketry showered upon him by the enemy, steered for the Niagara, standing erect in his boat with his sword in one hand, and in the other his battle-flag of "Don't give up the ship."-Perry passed on unburt, and, reaching the Ni-agara, he hoisted his flag anew, and bore down upon the enemy. Breaking through the British ships, he raked them at pistol shot with both broadsides. In one of the ships the British scamen were driven from the deck by the deadliness of this fire; and, the other vessels of the squadron arriving opportunely to support the Niagara, the enemy's ships began one by one to haul down their colors, until at three o'clock not a single British ensign remained flying. The Lawrence, which had been compelled to strike soon after Perry removed his flag, was now taken possession of, and was presently enabled to rehoist, her flag. The American loss in killed and wounded amounted to 123; that of the British to 200; the number of prisoners exceeded that with which the Americans went originally into action. The treatment of these prisoners by the victors was not less a subject of commendation than their bravery during the battle. Captain Barclay, who had been severely wounded, was in a peculiar manner the subject of Perry's attentions, and he afterwards took occasion to speak at all times of him in terms of equal commendation of his skill, his valor and his humanity.

Since the last war, the growth and im-, provement of our navy has kept pace with our national prosperity. We could now put to sea, in a few months, with a dozen ships of the line; the most spacious, efficient best, and most beautiful constructions that ever traversed the ocean. This is not merely an American conceit, but an admitted fact in Europe, where our models are studiously copied. In the U. States, a maximum and uniform calibre of cannon has been lately determined on and adopted Instead of the variety of length, form and calibre still used in other navies, and almost equal to the Great Michael with her "bassils, mynards, hagters, culpestilent serpenters," our ships offer flush and uniform decks, sheers free from hills, hollows and excrescences, and complete unbroken batteries of thirty-two or fortytwo pounders. Thus has been realized an important desideratum-the greatest possible power to do execution coupled with the greatest simplification of the means.

But, while we have thus improved upon the hitherto practised means of naval warfare, we are threatened with a total change. This is by the introduction of bombs, discharged horizontally, instead of shot from 4 So certain are those common .cannon. who have turned their attention to this subject that the change must take place, that, in France, they are already speculating on the means of excluding these destructive missiles from a ship's sides, by easing them in a cuirass of iron. Nor are these ideas the mere offspring of idle speculation. Experiments have been tried on hufks, by bombs projected horizontally, with terrible effect. If the projectile lodged in a mast, in exploding, it overturned it, with all its yards and rigging; if in the side, the ports were opened into each other; or, when near the water, an inamense chasm was opened, causing the vessel to sink immediately. If it should not explode until it fell spent upon deck, besides doing the injury of an ordinary ball, it would then burst, scattering smoke, fire and death, on every side. When this comes to pass, if would seem that the naval profession would cease to be very desirable. Nevertheless, experience has, in all ages, shown that, the more destructive are the engines used in war, and the more. it is improved and systematized, the less (is the loss of life. Salamis and Lepanto eau either of them aloue count many times the added victims of the Nile, Trafalgar, and Navarino.

One effect of the predicted change in naval war, it is said, will be the substitution of small vessels for the larger ones now in use. The three decker presents many times the surface of the schooner, while her superior number of cannon does not confer a commensurate advantage; for ten bombs, projected into the side of a ship, would be almost as efficacious to her destruction as a hundred. As forming part of a system of defence for our coast, the homb-cannon; mounted on steamers; which can take their position at will, would be terribly formidable. With them -to say nothing of torpedocs and submarine navigation—we need never more

be blockaded and annoyed as formerly, Hence peaceful nations will be most gainers by this change of system; but it is not enough that we should be capable of raising a blockade; we are a commercial people; our merchant ships visit every sea, and our mon-of-war must follow and protect them there.

When all nations shall be self-governed, and shall cease to exercise that injustice which almost invariably springs from the passions of individuals, then we may hope to realize the vision of an unbroken peace, and naval war, like every other, may be dismissed as barbarous. But, until that happy day arrives, our character, situation and interests, all prompt us to watch over Southern Review, in 1830:—

and improve our navy. Naval war may be carried on with infinitely less expense of life and money than war upon land. While a navy is impotent to the subver sion of our liberties, it goes forth to meet the danger at a distance from our shores. Our fields are saved from desolation; our peaceful citizens are left to cultivate them, undisturbed by the turmoil of approaching war; and are spared from spoliation, slaughter, famine, pestilence, and all the erimes and their attendant curses, that fol-' low in the train of armies. (See Ship, and Navigation.) We subjoin the following table of the various existing navies," taken from the February number of the

					=		
Navy of	Class of Vissels.	In Com-	In Ordi- may.	Bui'ding.	Total.	Total of Others and Nien.	Annual Cost.
Great Britain,	Ships of the line Frigates Shoops, brigs, &c. &c.	15 47 122 184	87 124 42 253	19 27 54 100	121 198 218 537	35,683	26,124,444
France,	Ships of the line Prigates Shoops, schooners, transports	11 35 155 201	22 6 8 36	20 18 35 73	53 59 198 310	20,958	12,804,000
United States,	Ships of the line Frigates Sloops Schooners, &c.	5. 12 3 20	7 5 4 4 20	5 7	12 17 16 7	G,34 5	2,879,283
Russin,	Ships of the line Frigates Sloops of war, &c.	17 12 33 62	19	9 12 21	35 31 33 102		
Sweden	Ships of the line Frigates Schooners and gun-boats		4	2 1 42 45	.6 1 42 49		
Denmark,	Ships of the line Frigates Corvettes, schooners, &c.		Ŀ		3 6 83		
Netherlands,	Ships of the line Frigates, corvettes, &c. &c.	30	23		53		
Spain,	Ships of the line Frigates. Sloops, schooners, &c.	3 8 25 36	3 4 . 69 76		6 12 94 112		

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Navy of	Class of Vessels.	In Coni-	In Ordinary. Build	ing. Total.	Total of Officers and Men.	Annual Cost.
Mexico,	Ships of the line Frigates Sloops, &c.		1 2 5 8	1 2 5 8		
Colombia,	Ships of sixty guns Corvettes, &c.	3	1 3 4	2 5 7		
Brazil,	Ships of the line Frigates Corvettes, &c.			1 7 41 52	ı	

Buenos Ayres has a brig of eighteen guns, and a few schooners. Chile has two small frigates, and a few smaller vessels. Peru has two sloops of war, and a few schooners. Hayti has a few gun-

boats and guarda-costas.

NAXOS In the most ancient times, Dia, and Stongyle; now .Vaxia); the largest island (169 square miles, with 10,000 inhabitants) in the Greek department of the central Cyclades; lat. 37° 2' N.; lon. 25° 30 F. It contains a city of the same name (with 200 inhabitants), forty villages, a castle, a harbor, and is the sent of a Greek and a Catholic bishop. Its extru-v ordinary fertility, and the fable of Bacchus, to whom it was consecrated, made it celebrated in autiquity. The ruins of a tem-· ple of Bacchus are still to be seen near the fountain of Ariadne. It abounded in grain, wine (which was considered the best in Greece), excellent fruits, and marble, of which the kind called Ophaltes, or Ophites, was much used. This marble hardens in the air, and stands for centuries undecayed. The inhabitants ascribed the uncommon fertility of the island, on account of which it was often called Little · Sicily, to the influence of Bacchus, its guardian deity. Festivals in honor of Bacchus, to whom alters and temples were dedicated, were celebrated here. It was here, also, that the deity consoled Ariadue. when deserted by Theseus. The first inhabitants of the island were said to have been Thracians; who were afterwards subdued by the Thessalians, under the command of Otus and Ephialtes. The Thesealians having deserted the island, on account of the continual drought, the Ca- the beginning of the following year, he ripus are said to have taken possession of imagined, that he heard a voice culling it, shortly after the Trojan war, under a upon him to renounce his father's house,

leader named Naxos. Pisistratus reduced the island to dependence on Athens. After the death of Pisistratus, Naxos regained its freedom, and was extremely flourishing, but, soon after, shared the fate of most of the islands of the archipelago, and fell under Persian domination. But, when Xerxes attempted to subdue Greece itself, the Navians took this opportunity of recovering their freedom in the battle of Salamis and Platere. During the Mythridatic war, the island was subjected to the Romans. The triumvir Antony then placed it under the protection of the Rhodians, but withdrew it, on account of their abuse of their power. It remained in a state of freedom till the time of Vespasian. who reduced it to a Roman province. It atterwards shared the late of the Roman empire of the East, and fell, with the remaining islands of the archipelago, into the hands of the Turks, who retained pos-2 session of it until it was attached to the. new Greek state.

NAYLER, James, an English Quaker of the seventeenth century, remarkable forhis enthusiasm and sufferings, was the son of an industrious small farmer, near Wakefield, Yorkshire, where he was born in 1616. He had a good natural capacity, and was taught to read and write. At the age of twenty-two, he married, and removed to Wakefield, where he remained? until the breaking out of the civil wat, in 1641. He then entered the parliamentary: army, in which he served eight years. Returning home, he remained there until 1651, when the preaching of George Fox made him a convert to Quakerism. In .

attended to this funcied inspiration, and soon distinguished himself among those of kindred sentiments, both in London and other places, until, in 1656, he was committed to Exeter juil, for propagating his opinions. At this time, his own en-thusiasm, and the extravagant admiration of some female followers, seem to have produced an incipient derangement, which induced Fox, and the more formal body of Quakers, to disown him. On his release from imprisonment, he repaired to Bristol, where his followers formed a procession, and led him into that city in a manner which they intended to resemble the entrance of Christ into Jerusalem. For this, Nayler, and several of his partisans, were committed to prison, and afterwards sent to London. He was declared guilty of blasphemy by parliament, and sentenced to a double whipping at different times, branding, boring of the tongue with a hot iron, and imprisonment and hard labor during pleasure. This sentence was illegal, the house of commons not being possessed of any power beyond that of imprisoning during the session. It was, however, fully inflicted upon the 'unhappy man, who ingenuously acknowledged the extravagance of his conduct; and, having afforded satisfactory evidence of his contrition, upon his enlargement, was agam received into the communion of the Friends. Hy died in 1660, in the forty-fourth year of his age. Nayler uttered, on his death-bed, sentiments of resignation, which exhibit an intensity of feeling, and a beauty of expression, that show him to have possessed no common mind. His writings were published in a single volume.

Nazarenes; a name sometimes given to the first Christians by their adversaries, and, even to this day, there exist, in Eastern Asia, some Christian congregations under this name.—The sect of Nazarenes, which originated as early as the second 'of Samson, that he should be a Nazarite century, in Palestine, believed it was necessary to enite the Jewish ceremonial law with the precepts of Jesus, and refer to a Hebrew Gospel of Matthew. Ebiquites (the poor) went still further in the observance of the Mosaic law, rejected, at the same time, the Epistles of St. Paul, and doubted the divinity of Christ, whom they considered but a perfect man. Like the Nazarenes, with whom they have a common country, and time of origin, but are by no means to be confounded, they had a Hebrew original Gospel. Both sects were unimportant, and Utrecht. On his return to London, in

and become an itinerant preacher. He seem to have ceased in the fourth cen-

NAZARETH, Of NASRA; a town in Syria (Palestine), in the pachalic of Acre; 50 miles north of Jerusalem; lat. 32° 42' N.; population, about 2000, mostly Christians. It has an old castle, a Greek church, a Catholic convent, with twelve or fourteen friars. It consists of a collection of houses scattered irregularly near the foot of a hill. It is memorable for having been the residence of our Savior and his family during the first thirty years of his life. It was once the see of an archbishop, removed to Monte Verde, in Italy. Nazareth held the third rank among the metropolitan cities dependent on the patriarch of Jerusalem. The Hebrews continued to inhabit it in the time of the Romans, till the reign of Constantine; and, after that epoch, it. passed alternately from the Christians to the Saracens. Here are many places reputed holy, to which pilgrims are conducted. The church attached to the convent is handsome, and is erected over a cave, which is asserted to have been the residence of the Virgin Mary. When the plague rages here, the sick come cagerly to rub themselves against the church hangings and pillar, believing thus to obtain a certain cure. The monks show, also, the workshop of Joseph, and the precipice where Christ is said to have saved himself from the fury of the multitude; also, as 'the 'most venerated object, the table of Christ, being the stone on which it is pretended that he ate before and after his resurrection. In a valley near it is a spring, denominated by the early pilgrims the "fountain of the Virgin Mary,

NAZARITES, among the Jews; persons who devoted themselves to the peculiar service of Jehovah, for a certain time, or for life. During their vow, they did not cut their hair, or drink any strong drink, or approach a dead body. It was foretold unto God from the womb. So Hannah vowed her first born son (Samuel) to Jehovah all the days of his life, with the promise that no razor should come near The law of the Nazarites (from the Hebrew nazar, to separate) is contain-

ed in Numbers, vi, 1-21.

NEAL, Daniel, an English dissenting di-/ . vine, and historian of the Puritans, was born in London, Dec. 14, 1678. In 1697, he entered as a student in a seminary conducted by Mr. Roe, a dissenting minister, after which he studied at the university of

1703, he began to officiate as a preacher, and, in 1700, succeeded doctor Singleton as minister of a congregation in Aldersgate street. Although assiduous as a minister. he found leisure for literary labors, and, in 1720, published his History of New England (2 vols., 8vo.); and, soon after, a Narrative of the Method of Inoculating for the Small-Pox in New England. In 1732, he sent into the world the first volume of his History of the Puritans (8vo,), the second, third and fourth appearing in 1733, 1736, and 1738. This work called forth a Vindication of the Doctrine, Discipline, and Worship, of the Church of England (8vo.), from doctor Maddox, bishop of St. Asaph, to which Neal published a reply, entitled a Review of the principal Facts objected to, &c. His remaining volumes were reviewed by doctor Grey, to which an answer appeared in a new edition of Neal, 1797 (5 vols., 8vo.), by doctor Toulmin. He died at Bath, in April, 1743, in the sixty-fifth year of his age, leaving a high character, both as a writer, and a divine.

NEANDER, John William Augustus, one of the most distinguished German Protestant theologians, professor at the university. of Berlin, Prussian counsellor of the consistory, &c., was born at Göttingen, Jen. 16, 1789, of Jewish parents. He received his first instruction in the gymnasium of Hamburg. In 1805, he went to the university of Halle; and, when this university was broken up by Napoleon, he went to Göttingen, where he remained until he had finished his philosophical and theo-logical studies. The latter he pursued with an carnest desire to discover the truth. He was, however, not as yet converted to Christianity. In 1811, he settled 'at Heidelberg, as a theological teacher, having previously embraced Christianity, when he also adopted his present name, to indicate his entire change (seas argo, new mun). In 1812, he was appointed professor extraordinarius of theology in the university, and soon appeared before the public with his learned work, the Emperor Julian, and his Time (in German, Leipsic, 1812). In 1813, he was called to a professorship at Berlin, and published, in the same year, his St. Bernard, and his Age (in German, Berlin, 1813),—a work rendered particularly interesting by his liberal criticism of Abelard, the distinguished contemporary of St. Bernard. In 1818, he published an Exposition of the most important Guostic Systems (in German), and, in 1821, his Chrysostom, and the Oriental Church in bis Age (likewise in German). In 1822, he

undertook the publication of a periodical under the title of Denkwürdigkeiten aus der Geschichte des Christenthums und des Christlichen Lebens (2d ed., Berlin, 1825, 3 vols.), in which he strives to explain the history of the six first centuries. In 1825, he published his Antignosticus. Spirit of Tertullian, and Introduction to his Writings (in German, Berlin, 8vo.), in which he strove to show the anti-speculative direction of Christianity, of which Tertullian was the representative, as he had in his former work on the Gnosis (q. v.) shown the visionary and mystical direction which Christianity had taken with the Gnostics. 'He then undertook the execution of a work which he himself calls the centre of his endeavors,—a General History of Religion and the Church (in German), of which the first volume appeared in 1825 (Hamburg), and of which two volumes have appeared, in several divisious, beginning with the end of the apostolic age, and reaching to Gregory 1. He promises a history of the apostolic age, as a separate work. He says, in the preface to the first volume, the "chief aim of his life, from an early period, was to represent the history of the church of Christ as a speaking proof of the divine power of Christianity, as a school of Christian experience, and a voice sounding through all ages, of edification and warning for all who are willing to listen." A volume of small theological treatises has appeared in a third edition (1829). All these works prove indefatigable zeal and vast crudition. Neander is also a most active teacher in all branches of historical theology, and is, besides, engaged in several avocations connected with his science, and deserves to be called a zealous laborer in the vineyard of the Lord. His example is that of a most pious Christian, who abhors party controversies in religion.

NEAPED; the situation of a ship which is left aground on the height of a spring tide, so that she cannot be floated off till the return of the next spring.

NEAPOLITAN REVOLUTION. (Sec. Na-

ples, Revolution of.)

NEAP TIDES are those which happen when the moon is nearly at the second and fourth quarters. The neap tides are low tides, in respect to their opposites, the spring tides.

NEARCHUS; one of the captains of Alexander the Great, who was employed by that conqueror in conducting his fleet from India by the ocean to the Persian gulf. This axpedition proved so tedious and fatiguing, that the leader, on his return,

was not recognised by his friends, until he had made himself known. His service was so much esteemed, that he was . crowned with a garland by Alexander at Susa. Fragments of his relation are extant, and form a curious and valuable. record. It may be found among the Geographi Minores by Hudson. Vincentalso published these fragments, with dissertations and a commentary (London, 1797).

NEBUCHADNEZZAR, OF NABUCHODONOsan, a king of Babylon, who reigned from, 606 to 563 B. C. was the son of Nabopolassar, by whom the kingdom of Babylon was restored to its independency of the Assyrian monarchy. Nebuchadnezzar, by his conquests, extended the Babylonian power to the western limits of Asia. He defeated the Egyptian Pharaoh Necho, at Carchemish, captured and destroyed Jerusalem, Tyre and Sidon. According to the policy of Asietic conquerors, who transplanted the conquered nations of a turbulent character, he removed to Babylon a great number of the Jews, whose residence there is called the Babylonish captivity. Babylon was indebted to him for its magnificence. The Scripture account of his becoming an ox, for seven years, is by some understood to mean that he was afflicted with the disease called lycanthropy (q. v.); by others, to be susceptible of an allegorical interpretation.

NEBT . The name of nebulæ is given to certain little spots, resembling white clouds, which are seen in the starry heavens, and which, as observed through the telescope, present three kinds of appear-'a hese appearances are either that of single stars, enveloped in a nebulous veil, or of groups of little stars, or only of a glittering cloud. The last are the proper nebulæ, which astronomers consider as systems of fixed stars, of which there may be immunerable multitudes in infinite space. Herschel, who spent much time in observing them, and has described them in his Catalogue of One Thousand new Nebulae (London, 1786, 4to.), does not consider them all as groups of stars. At present, as many as two thousand are: known. Bode's Introduction to a Knowledge of the Starry Heavens (in German, Berlin, 1823, 9th ed.) treats of them at length.

cannot but be, or cannot be otherwise. It is conceived in three different relations: 1. logical necessity, which consists in the circumstance that something cannot be conceived different from what it is, because the contrary is contradictory' or ahsurd. 2. Physical necessity is that neces-

sity which arises from the laws of the material universe. The necessary, in this respect, is opposed to the casual. thing in the sensible world has but a conditional necessity: it is necessary from some cause, so that we are led back to the primitive cause, to the Supreme Being, who is said, therefore, to be the only absolutely necessary, independently existing Being, so that metaphysicians say, with him absolute necessity and liberty are one thing. This will be more easily understood, if we consider more closely the meaning of necessity. In its general application, it presupposes a cause, which forces the thing to be such as it is, while, in this case, its ... meaning lies in the non-existence of a cause, and the Supreme Being who exists . and acts without a cause, must be supposed to exist and act from necessity. 3. Nocessity as to the volition and action of man-moral necessity-the great question. whether liberty of volition and necessity can exist together, and if so, in what manner, is the most intricate point of ethics and philosophy in general, and has been treated of in all ages and in all modes, in reference to morals and religion. In fact, it involves the whole relation of man to God. The Catholic theologians distinguish several kinds of necessity as to the means of salvation; they say baptism is absolutely necessary, because, without it, whether the want of it is owing to the afault of the individual or not, no one can be saved, while a person who cannot possibly receive the eucharist would not be punished, though he would deserve damnation if he should refuse it where he could receive it.

Necno; one of the Pharaohs. mentioned in the Scriptures as the conqueror of Josiah, who fell in the battle of Megiddo, in attempting to check the progress of the Egyptian forces against Assyria. A few years later, he is described as making war upon Nebuchadnezzar, and experiencing a complete defeat at Car-chemish. The documents of Egyptian and profune history show him to have been Necho II, son and successor of Psammeticus. Herodotus describes him under the name of Necho (ii; 158, 159), and relates, though with some inaccura-NECESSITY; the quality of that which . cies, his war in Judea. . Champollioh has . read the name upon many statues.

NECKAR; a river of Germany, which rises in the Black Forest in Wartemberg, hear one of the sources of the Danube, and flows into the Rhine at Manheim, after a course of about 150 miles. It is navigable for small boats to the influx of

The Neckar wines are light. sound, and of an agreeable flavor.

NECKER, James, minister of finance to Louis XVI, was born in 1734, at Geneva. where his father was professor of German public law, and went to Paris to enter the banking-house of his uncle M. Vernet. His attention and intelligence gained him the confidence of M. Thelusson, with whom he formed a partnership in the banking business. In the course of twelve or fifteen years, he became one of the richest onnkers. Advantageous contracts with the India company, and speculations in the English funds, in anticipation of the peace of 1763, of which he had received early notice, increased his fortune to six The East India company, of millions. which he was a member, having chosen him to manage their cause with the government, he published a work on the subject (1769), in which he enumerated the services rendered by them to the state in difficult emergencies. His adversaries were Morellet and Lacretelle, who, attacking exclusive privileges, and demanding free trade, had the popular side of the question. Necker, however, gained many adherents, and even his errors did not prevent justice being done to his talents. now retired from business, and received the post of resident of the republic of Geneva at the French court, in which he became favorably known to the duke de Choiseul. Ambitious of literary distinction, he produced his Eloge de Colbert, which gained the prize of the French acade ny. His Essai sur la Législation et le Commerce des Grains (1775) attracted great attention, and was violently attacked by the Economists (see *Physiocratic Sys-*tem), as it was in favor of some restrictions on the exportation of corn. In spite of an inflated and incorrect style, and a vagueness of thought, his writings pleased the mass of readers, on account of the popular manner in which he treated quis of Pezay, who carried on a secret correspondence with Louis XVI, to his view, and through him transmission. king a memorial, in which he drew an altogether too favorable picture of the resources of the state. This measure accelerated his elevation. Towards the end of 1776, he was joined with the controllergeneral Taboureau as director of the royal treasury, and, in eight months after, took Taboureau's place. Maurepus, who, notwithstanding his great age and apparent indiference, was fond of the exercise of

the expectation of finding a submissive servant in a man whose birth and religion would create him enemies among the no-Necker assumed his bles and clergy. post in a difficult moment. Malversation, under the preceding reign, had caused a great deficit, to which the American war made great additions. New taxes would have been unpopular, and Necker endeavored to meet the exigency by loans and reforms. But the partisans of Turgot, whom he had alienated by his sentiments relative to the corn trade, found fault with his innovations. Turget himself took part in the controversy: Necker was accused of an excessive preference for the caisse d'esconte: the abolition of the office of receiver-general was blamed as an act of bad faith, calculated to place the king under the dictation of the financiers; that of the director of the treasury, as the revival of a project of Law, whose name awakened the worst recollections, &c. The plan of convoking provincial assemblies displeased the parliaments, which it threatened to reduce to mere judicial tribunals. Necker, however, found many defenders, particularly among men of letters. 1781, be published his Comte rendu au Roi, relative to his administration: more than 200,000 copies of this pamphlet were circulated. He was not, however, admitted to the common deliberations of the ministers, and Maurepas (q. v.), who was jealous of Necker's reputation, succeeded in frustrating his plans, although they were approved by the king. Necker then demanded the entrée au conseil, as it was called. Some objection being made on account of his religion, he threatened to resign his place, and was not a little astonished to receive permission to retire (May, 1781). He went to Switzerland, where he purchased the barony of Copet, and published his work Administration des Finances (3 vols.), of which 80,000 copies were sold in a few days. His enemics . accused him of undermining the foundations of the monarchy, by exposing the secrets of government, and of exchanging ad through him, transmitted to the the character of counsellor of his prince for that of a tribune, by appealing from the king to the people. The errors and prodigulity of Calonne (q. v.) increased Necker's teputation: the latter returned to France, in 1787, wrote against Calonne, who had accused him of being the author of the deficit, and was exiled in consequence. But, in 1788, when the attacks upon the minister of finance, Brienne (see Loménie de Brienne), began to alarm the pow r, favored Necker's advancement, in court, Necker was recalled as controller-

general, and accepted the post on condition that he should not be obliged to transact business with the premier. His con-· victions led him to support the convocation of the states-general, which was the wish of the nation. His report (of Dec. 27, 1788) on this subject may be considered the spark which kindled the pile. was also in favor of the double representation of the third estate (see France), but neglected to regulate the mode of deliberation and of voting. In 1789, his encmies accused him of having contributed to produce the famine, by the expression of unfounded fears. They maintained of unfounded fears. that, of thirty-nine millions expended in the purchase of corn, twenty-eight millions had been replaced by its sale, and that of this sum he had given no account. He was even charged with having applied it to the furtherance of his own ambitious views. May 5, he delivered a long speech, on the opening of the states-general, and laid down a plan for the labors of that body, which he expected to wield at his When the government determined to take measures against the increasing troubles, Necker, who opposed the adoption of those measures, was dismissed, mainly through the influence of baron Breteril, and ordered to leave the kingdom within twenty-four hours. No sooner was his removal known than all Paris was in a ferment. The storming of the Bustile followed, and the symptoms of popular violence became so alarming, that the king found himself compelled to recall the banished minister. Necker received the new, of his recall at Basle, and determined to comply with it: his return to Paris resembled a triumphal procession. His first object was to restore tranquillity, and security of person and property. as minister of finance, he was obliged to propose measures which could not be acceptable to the populace. His moderate opinions, in regard to the administration of government, did not keep pace with the wishes of those who dictated to the people. Mirabcau, in particular, whose character rendered him more fit to rule the popular will, undermined Necker's influence. In the deliberations on the plan of a new constitution, he defended the royal veto, and opposed the abolition of titles of nobility: he also proposed the establishment of a national bank. When the national assembly made public .the contents of the red book (the private list of the royal pensions and grants), Necker declared warmly against this measure, and defended the list. These opinions exposed

him to the charge of being an aristocrat: his personal security was threatened, and his influence annihilated. His plan of a loan at four and a half per cent. failed. Under these circumstances, he wrote to the assembly, in September, 1790, requesting his dismissal. He offered to place in their hands the two million livres which he had advanced to government, together with his house and appurtenances, as a pledge of his integrity. His offer was received without any marks of regret, and he left Paris with the mortification of seeing his plans and brilliant prospects fail. His daughter, madame de Staël (q. v.), has given the most favorable view of his character us a statesman in her Considérations; but Bailleul in his Examen critique of that work has demonstrated the feebleness of Necker's policy. He returned to Copet. amidst the insults of the people, and his chagrin was heightened by domestic calamities. After the loss of his wife (see Necker, Susannah), to whom he was much attached, he occupied himself in writing a defence of his administration, Sur l'Administration de M. Necker par lui-même. In his work Réflexions adressées à la Nation, he defended the king. His essay Du Pouroir exécutif dans les grands États (2 vols., 1792) is approved even by those who are not favorably disposed towards him. His De la Révolution Française (1796, 4 vols.) is a work of much interest; and his Cours de Morale religieuse (1800, 3 vols.), and De l'Importance des Opinions religicuses (1788), are not destitute of eloquence. Me died at Geneva, in 1804.

NECKER, Susanna, wife of the minister, daughter of a clergyman of the canton of Berne, by the name of Curchod, received an excellent education, and, in her youth, was the object of the attachment of Gibbon: Having 'accompanied madame de Vermenoux to Paris, as Latin instructress of her son, Miss Curchod there became acquainted with Necker, to whom she was married in 1765. Madame Necker was of a most excellent character, and, under all circumstances, a tender, affectionate and faithful wife, mother and friend. Her heart was not less carefully cultivated than her mind; and, on her husband's elevation, she made use of his influence and fortune only for purposes of benevolence and kindness. erected an hospital, in the neighborhood of Paris, at her own expense, and devoted to it her personal care. She had many friends among the men of letters, particularly Thomas, Buffon and Marmontel, who has given an accurate account of her.

She died in 1794. Madame Necker is the author of several works—Des Inhumations précipitées (1790); Ménoire sur l'Établissement des Hospices, and Réflexions sur le Divorce. After her death, appeared Mélanges (1798), and Nouveaux Mélanges (1801).

Necrology (from respts, dead, and hores, word, &c.) signifies, in monasteries and cathedrals, the records of those bishops, canons, and others who have made grants to the church, &c. Each one's record is read on the auniversary of his death, with prayers for him. Fornerly, also, what is now called martyrology (q. v.) was called necrology. The biographical notice of a deceased person is likewise called nec-

rology.

NECROMANCY (from рекооригатега, от рековparter); the divination of the future, by questioning the dead. (See Divination.) This, like many superstitious rites, originated in the east, or the extreme north, and is of the highest antiquity. Some have, indeed, maintained that it was not brought from Egypt or Persia to Greece, but originated in the last country; but it is difficult to prove this. We find mention made of necromancy in the Old Testament; for instance, in the first book of Samuel (i, 18), and in Deuteronomy (xviii, 11), where it is forbidden. In the eleventh book of the Odyssey, Homer has made Ulysses raise the shade of Tiresias from the infernal regions. The rite, as there described, contains nothing magical, and consists merely in the performance of a sacrifice with pe-culiar solemnities. This description of culiar solemnities. Homer proves that necromancy was common in Greece before his time. In many parts of Greece, there were oracles of the dead, the origin of which is lost in the obscurity of history. The table of the descent of Orpheus to Hades is, by some, considered to refer to this species of nec-Indeed, it is very doubtful whether the expression used of many of the Greek heroes, that they descended to · the infernal regions, means any thing more than that they consulted an oracle of the While, in the rest of Greece, necromancy was practised in the temples by priests, or other religious persons, individuals called ψυχαγωγοι (evokers of spirits) practised it in Thessaly, the native country of magic, and made use of magical practices. In later times, these practices became horrible, for magicians, ascribing a superior power to human blood, and evs ery thing which came from the gibbet or the grave, were led to the most revolting x and disgusting acts. They tore men, half

burnt, from their funeral piles, buried others living, ripped out unborn babes from the wombs of their mothers, and committed other similar enormities. They frequently butchered men, in order to consult their spirits before they had time to hasten down to the regions of the dead. In case the invoked spirits (and this was the ancient and usual custom) actually presented themselves to the exercist, necromancy was also called σκωμαντωα, and ψυχομαντεια, that is, divination by shades After the (σκιαι), or departed souls (ψυχαι). total downfall of paganism, men were satisfied with a kind of necromancy by which they merely caused the voices of the dead to be heard from their graves.

. Necropolis (from raxos, dead, and πολις, city); the city of the dead. This name is given, in particular, to the ancient cemeteries, which, in the neighborhood of some of the great cities, are very extensive, and filled with magnificent remains. It has also been given to some modern cemeteries. The necropolis in Liverpool is constructed in a quarry, and is about ninety yards in width by 500 in length. The area is planted, and the eastern side, which is fifty-two feet in perpendicular height, is cut into catacombs. On the face of the rock stands a small Doric oratory, in which the functal ceremonies are performed.

Nucran, in the Greeian mythology; the drink of the gods, which seems never to have been given to mortals. A beverage, made of honey and sweet wine, was also called nector; and a sweet wine of Scio, made of half-dried grapes, still bears the

sume name.

NECTARINE. This fruit seems to differ from the peach only in having a smooth skin, and it is even found occasionally growing upon the same tree. The tree, in its foliage, parts of fructification, wood and growth, is entirely similar to the peach.

NECTARY, in botany; that part of the flower which yields the honey.

Nedshed. (Sec Arabia.)

NEEDLE, MAGNETIC. (Soc Magnet, Magnetic Needle, and Compass.)

NEEDLE-STOKE. (See Zcolite.)
NEEF, or NEEFS, Peter, the ekler, an eminent artist, was born at Antwerp, in 1570. He painted the interiors of churches and temples with surprising neatness and delicacy. To avoid the monotony attendant upon such a style, he introduced a variety of objects; and, by a good management of the chiar-oscuro, he gave a lively and animated effect to what, other-

wise, would have been tame and uninteresting. As he was but an indifferent designer of figures, some of his pictures are decorated with those of Velvet Brueghel. Teniers, and others: He died in 1651.

-His son Peter, the younger, painted similar subjects, but they are deficient

both in neutness and correctness.

NEELE, Henry; an ingenious English poet and novel-writer, who died, by his own hard, February 9, 1828, in a fit of insanby, supposed to have originated from too intense application to study. . He was the son of an engraver, and was educated for the profession of a solicitor, which he practised, with reputation, in London, till his death. He was a man of amiable disposition, and highly respected by his are Poems; Dramatic Scenes; and the Romance of History (3 vols., 12mo.), a scries of tales relating to persons and events mentioned in the English annals. His Literary Remains have been published since his death (1-tol, 1829).

NEER, Arnold Van der, an eminent artst, was born at Amsterdam, in 1619. He excelled in painting views in Holland, cottages, or fishermen's huts, and in his beauafil delineation of the effect of moonlight. "He was a perfect master of the chiar-oscuco. His sunsets are excellent; nor was he less successful in painting water pieces, a. which he is only surpassed by Cuyp. ile died in 1683.-His son Eglon Hendeick Van der Neer was born in 1643, and was a historical and portrait painter. His - pictures of conversations and gallant subjects as a most admired; they are well colored and highly finished. He was employed, for some time, by the elector paltine at Düsseldorf, where he died in

1703.

NEERWINDEN; a village in the province of Brabant, kingdom of Belgium, sixteen miles from Louvain. In 1693, the marshal of Luxembourg gained a victory here over the allies under William III, king of In 1793, the French, under England. Dumouriez (q. v.), were defeated here by the Austrians.

NEGATIVE (from the Latin negare, to de-·ny; hence a negative answer is a denying answer). In philosophy, every thing is .. called negative which, without determining any thing itself, only excludes something else (the positive). Thus, for instance, man, black, wise, are positive ideas; they mean something direct, and it is not necessary to arrive at their meaning by the intermediate process of excluding something else. While, if we say a thing is

not a man, not black, not wise, nothing is determined. A thing which is "not a man" may be a book, air, water. Hence we see that the negative notion always requires something positive, which it excludes, or negatives. It is necessary, however, to remark here, that, in all languages, certain words which expressed, originally, negative notions, have received a positive meaning, as no one thinks of them any longer as merely excluding ideas of a positive character. For instance, innocent, illegible, fearless-these words are, in their meaning, as positive as the terms purehearted, badly-written, brave. Every term may be considered as negative, in reference to notions other than those which it conveys, since it excludes them .- Negative and positive quantities, in mathematies, are such as are, respectively, greater or less than nothing. Thus, if we call a man's debts, when they much exceed his property, positive, we must call his property negative; or, if we call the former negative, we call the latter positive. If we suppose one of the legs of an angle movable round the vertex, we may represent. all possible angles, and on both sides of ... the immovable leg; those on one side are positive, those on the other negative. The same relation exists, in mechanics, between power and weight; in statics, be-tween pressure and resistance, &c. The tween pressure and resistance, &c. higher arithmetic extends the application of the fundamental rules to the negative and positive quantities; which application forms the basis of algebra. Negative quantities are designated by -, and positive ones by +. so that - 4+4=0.

NEGATIVE PREGNANT, in law, is a nega-

tive which implies, or brings forth, an ai-

firmative.

NEGRO (Itatin niger, black); a race or variety of the human species deriving their name from one of their most striking characteristics, their black color; called, also, the Ethiopic race. (See Man.) Their native region seems to be the central portion of Africa, though some tribes of the negro variety have been found in America and the South Sea islands. The negro formation prevails in Western Africa in the region of the Gambia and Senegal; extending southwards, is most strongly marked in Guinca, and passes gradually over into the Cuffre (q. v.) and Hottentot (q. v.) formation. In Eastern Africa, it . commences to the south of Abyssinia; prevails in Zanguebar and Monomotaps, though not in general pure. Of the tribes in the more central part of Africa little is known. (See Nigritia.) The heat of the

climate, in all these regions, may have 'scribing the negro as mild, amiable, simsome effect upon the tint of the skin, but is by no means the only or the principal cause of the black color, since, under the same climates of the torrid zone, there are found all shades of complexion. White men in Africa only become somewhat swarthier, but never black, even in a succession of generations, unless they intermingle with the negroes; and blacks, in other regions and climates, are not found to lose their native hue. The seat of the black color is the rele mucosum. and the external surface of the true skin (cutis); and when the rele mucosum is destroyed, as by disease, &c. (see Albinos), the color is lost: so, in parts of the body where the epidermis is unusually thick (the palms of the hand and the soles of the feet), it is of a lighter shade. • Negroes are also distinguished from the other races by other external, and by some anatomical peculiarities, particularly in the conformation of the cranium. The projection of the whole visage in advance of the forehead; the prolongation of the upper and lower jaws; the small facial angle (see Face); the flatness of the forehead, and of the hinder part of the head (occiput), and the compression in the direction of the temples, allowing less space for the brair. In in some other varieties; the woolly, adzided hair; the short, broad and flat nose; the thick, projecting lips, with many other peculiarities of formation, constitute some of the characteristics of the negro or Ethiopic race. The African tribes of this variety have, in general, elevated themselves so far above the simple state of nature, as to have reduced the lower animals to subjection, constructed settled habitations, practised a rude agri- culture, and manufactured some articles of clothing or ornament. In political institutions they have made no advance, their governments being simple despot-isms, without any regular organization. Their religion is merely the instinctive expression of the religious feeling, in its lowest form of fetichism. (See Fetich.) Their languages are described as extremely rude and imperfect; almost destitute of construction, and incapable of expressing abstractions. They have no art of conveying thoughts or events by writing, not even by the simplest symbolical characters. The negro character, it inferior in intellectual vigor, is marked by a warmth of social affections, and a kindness and tenderness of feeling, which even the atroci-

ple, hospitable, unsuspecting and faithful. They are passionately fond of music, and they express their hopes and fears in extemporary effusions of song. The opinion formerly maintained, that they were of an inferior variety of animals, would not now find an advocate, or a convert, even in the ignorance or the worst pas-sions of the whites. Whether they are capable of reaching to the same height of intellectual cultivation as the Europeans. is a question which we need more facts to decide. (See Civilization.) The most eloquent defender of the negroes is the abbe Grégoire (q. v.), in his work De la Littérature des Nègres, ou Recherches sur leurs Facultés intellectuelles, leurs Qualités morales, &c: (See the articles Africa, Physiology, Philology, Slavery, &c.)

Negroport, or Euripo (the ancient $m{E}$ eboa); an island in the Archipelago, separated from the continent by the narrow strait formerly called Euripus, over which there is a bridge 200 feet long. The modern name seems to be a corruption of Egripos, the name of the capital (the uncieht Chalcis), which is probably derived from: that of the strait on which it lies. The superficial area is 1610 square miles; the population, previous to the Greek revolution, amounted to 60,000, among whom. were 40,000 Grecks. Its soil is fertile. yielding corn and various fruits in abundance; wine, oil, honey and silk are also produced. The mountains in the inferior are lotty, and their summits are covered with snow during six months in the year. The capital is Fgripos, or Negropont. The castle of Carysto, on the southern extremity of the island, over against Athens, by its position at the entrance of the straits, commands the whole island, and also the province of Attica. In 1821, Eubeen raised the standard of revolt, at the call of the beautiful Modena Maurogenia. a young lady descended from a princely family of the island, and whose father had been strangled by the Porte. She fitted out two ships from Myconi, with a supply of arms for the inhabitants of the island, and offered her hand, as the reward, to any free Greek who should conquer the Turks. Seventy-two villages were soon in arms, upon which the Turks retired into Egripos and Carysto, which were closely blockaded by the Greeks.

Negus; a drink, made of wine, water, sugar, nutmeg and lemon-juice; so called from colonel Negus, the inventor.

ties of foreign oppression have not been Nehemian; a distinguished and pious able to stiffe. All travellers concur in de- Jew, who was born in captivity, but was Nенемтан; a distinguished and pious

made the cun-bearer of Artaxerxes Longimanus. He used his influence for the welfare of his unhappy countrymen, and became their benefactor. At his own request, he was sent, as governor, to Jerusalem, with a commission to rebuild the walls and gates of this city. He accomplished his purpose, but not without difficulties, arising partly from the poverty of the lower classes of the people, and partly from the opposition of the Moabites and Ammonites. He then took measures to raise the city to its former splendor, and to increase its population. He and Ezra were the proper founders of the Jewish liturgy, and a collection of the holy books was made under their inspection. Nehemiah published an account of the same in a book which is admitted into the Jewish canon, and is supposed to Be a continuation of the narration contained in the book of Ezra. It includes a period of 49 years.

NEITHA; one of the later goddesses of the Egyptians, whose worship flourished at Sais, in Lower Egypt, and who was considered as its founder and protectress. Plato calls her, in Timens, the Althena of the Greeks. A colony from Sais is said to have brought the worship of Neith to Athens. She appears, in later times, to have become identified with Isis. The splendid temple at Sais, which was illuminated on her yearly festival, hore this sublime inscription:—"I am all that has been, that is, and that will be; and no man hath everlifted my veil. The sun was my than Muthology.)

Mediterranean to watch the progress of the armament at Toulon. Notwithstanding his vigilance, the French fleef, which conveyed Bonaparte to Egypt, escaped. Thirther Nelson followed, and, after various disappointments, he discovered the enemy's vessels moored in the bay of Aboukir. Having, by a well executed manueuve, obliged them to come to action, he chained a most complete victory, all the French ships but two being taken or destroyed. This achievement was rewarded with the title of baron Milson of the Notwithstanding his vigilance, the French fleef, which conveyed Bonaparte to Egypt, escaped. Thirther Nelson followed, and, after various disappointments, he discovered the enemy's vessels moored in the bay of Aboukir. Having, by a well executed manueuve, obliged them to come to action, he chained a most complete victory, all the French fleef, which was illustrated to the Prench fleef, which was illustrated to the Prench fleef.

NELSON, Horatio; a celebrated naval officer, who was born, September 29, , 1758, at Burnham Thorpe, in Norfolk, of which parish his father was rector. At the age of twelve, he entered the navy, as a midshipman, and, in 1773, accompanied commodore Phipps (see Mulgrave) in an expedition towards the north pole. In 1777, he was made a lieutenant, and, in 1779, raised to the rank of post-captain. He distinguished himself in an attack on fort Juan, in the gulf of Mexico, and on other occasions, and remained on the American station till the conclusion of peace. He afterwards commanded the Boreas frigate, and was employed to protect the trade of the Leeward islands. On the commencement of the war with the French republic, he was made commander of the Agameunion, of sixty-four guns, with which he joined lord Hood in the Mediterranean, and assisted at the taking of Toulon, and at the siege of Bastia. At the siege of Culvi, he lost an eye. In fleet got out of port, March 30, 1805, and,

the battle off cape St. Vincent, February 13, 1797, he commanded the Captain, on board of which he attacked the Santissima Trinidada, of 136 guns; and, passing. to the San Nicholas, of eighty guns, and the San Joseph, of 112, he obliged both those ships to strike their flags. For his gallantry, he was made a knight of the Bath, rear-admiral of the blue, and appointed to the command of the inner squadron at the blockade of Cadiz. His next service was an attack on the town of Santa Cruz, in the island of Teneriffe, in which he was unsuccessful; and, being severely wounded, his life was saved by his son-in-law, captain Nesbit, who, at great personal hazard, conveyed him to a boat. He was obliged to suffer the amputation of his right arm, in consequence of which he obtained a pension of 1000 pounds. In 1798, he joined lord St. Vincent (admiral Jervis), who sent him to the Mediterranean to watch the progress of the armament at Toulon. Notwithstanding his vigilance, the French fleet, which conveyed Bonaparte to Egypt, escaped. Thither Nelson followed, and, after vari-Aboukir. Having, by a well executed manouvre, obliged them to come to action, he obtained a most complete victory, all the French ships but two being taken or destroyed. 'This achievement was rewarded with the title of baron Nelson of the Nile, and a pension of 2000 pounds, besides the honors conferred on him by the grand seignior. His next service was the restoration of the king of Naples, which was accompanied with circumstances of revolting crucky, which may be attributed to the influence of lady Hamilton (q. v.), the wife of the English ambassador. His connexion with that lady, with whom he lived publicly after the death of ther husband, occasioned his separation from lady Nelson, on his return to England. In 1801, he was employed on the expedition to Copenhagen, under sir Hyde Parker, in which he displayed his accustomed gallantry, and effected the destruction of the Danish ships and batteries. On his return home, he was created a viscount, and his honors were made hereditary in his family, even in the female: line. When hostilities recommenced after the peace of Amiens, lord Nelson was appointed to command the fleet in the Mediterranean; and, for nearly two years, he was engaged in the blockade of Tou-.lon. In spite of his vigilance, the French

being joined by a Spanish squadron from Cadiz, sailed to the West Indies. English admiral hastily pursued them, and they returned to Europe, and took shelter at Cadiz. On the 19th of October, the French, commanded by Villeheuve, and the Spaniards, by Gravina. ventured again from Cadiz; and, on the 21st, they came up with the English squadron off cape Trafalgar. An cugagement took place, in which the victory was obtained by the English, at the expense of the life of their commander, who was wounded in the back by a musket ball, and, shortly after, expired. His remains were carried to lengland; and, after lying in state at Greenwich, he was magnificently interred in St. Paul's cathedral, where a monument was erected to his memory. Having left no issue by his wife, an earldom was bestowed on his brother, and a sum of money voted by parliament for the purchase of an estate, which is to descend, with the title, to his collateral relatives. His life has been written by Mr. M'Arthur, doctor J. Stanier Clarke, and doctor Southey. (For an account of the battle of Trafalgar, seet but in 1774, we find him a member of the .Vavy.

Nelson, Robert; an English gentleman of fortune, which he employed in works of benevolence and charity and, from this circumstance, as well as from the devotional works of which he was the author, is generally distinguished by the epithet of the pious. He was the son of a London merchant engaged in the Levant trade, and was born in Lordon, 1656. Having gone through the customar, course of study, he proceeded to make a continental tour, in company with his thend Edmund Halley. On the accession of William, he remained a non-juror, associating and communicating principally with the recusant clergy. These opinions did not, however, interrupt his intimacy with archbishop Tillotson, whom he assisted in every work which had the good of mankind for its object, till the death of the worthy prelate, who expired in his arms, in 1694. In 1709, the arguments of some of his clerical friends had proluced such a degree of conviction upon his mind, that he became a member of the established church, and continued in that communion till his death, which took place at Kensington, January 16, 1715. There are few writers on devotional subjects whose works have been so popular as Mr. Nelson's: His treatise entitled a Companion to the Festivals and Fasts, especially, has gone through a great num-

ber of editions. Among his other works are the Whole Duty of a Christian; the Duty of frequenting the Christian Sucrifice (8vo.); an Address on the Means of Doing Good; a Letter on the Trinity; the Practice of True Devotion (12 me.); Transubstantiation contrary to Scriptum (410.); a Letter on Church Government; a life of his old tutor, bishop Bull, &c.

Necson, Thomas, Jr., a signer of the Declaration of Independence, was born a York, in Virginia, Dec. 26, 1738. He was the eldest son of a highly respectable and affluent merchant, from whom he received a considerable fortune. When 14 years of age, he was sent to Eugland for his education; and after remaining, ti some time, at a private school near Lon-. don, he entered the university of Caferbridge, where he enjoyed the instruction of the celebrated doctor Porteus, subsequently bishop of London. At the end of 1764, he returned to his native country, and, inthe following year, married the daughter of Philip Grymes, Esq., of Brandon. It is not known exactly at what period the political career of Mr. Nelson commenced; house of burgesses, and also a delegate to the first general convers an of the preince, which met at Williamsburg, August 1. In 1775, he was again appointed a member of the general convention, and introduced a resolution for organizing xmilitary force in the province, which, though it at first startled some of the warmest friends of liberty, as it placed Virginia in a decided attitude of opposition tos the mother country, was eventually preductive of highly beneficial results to the interests of the colonies. 'In August of' the same year, he was chosen a reprisentative in the general congress about to assemble in Philadelphia, and, September 13, he took his seat. He retained it from that time until 1777, during which period he served on various important committees, and made himself estoemed forsound judgment and liberal principles." In May of the above year, he was obliged to relinquish all serious occupation, in consequence of a disease in the head, which, impaired, for a time, his mental faculties, especially his memory. When sufficiently reestablished in health to exert himself in the service of his country, he was ap- ... pointed, by the governor and council of Virginia, brigadier-general and commander-in-chief of the forces of the commonwealth, in which situation he rendered important services, particularly by advancing money, in cases of emergency,

to carry forward the military operations. In 1779, he was again elected to congress, and the arduous and confining nature of the duties which he assumed there, occasioned a recurrence of his complaint, which constrained hun, a second time, to return home. Soon after his recovery, he entered zealously into several military expeditions against the British; and, in , 1781, he was called upon to succeed Mr. Jefferson in the executive chair of Virginia, at a period when affairs there were the most gloomy aspect. Though the constitution required the consent of the council to the measures of the governor, yet, as the distracted state of the country rendered it nearly impossible to keep a sufficient number of the members together, he determined to act as his own , judgment dictated, for the public good, at the risk of censure for violating the constitution; and it was owing to his measares that the army was kept together, until the capture of Yorktown terminated the war. Soon after that event, he received the public thanks of general Washington for the aid which he derived from him and the militia under his command. He then resigned his station in consequence of his health, and immediately afterwardwas accused, by his enemies, of having transcended his powers, by acting without the advice of his council; but he was hemerably acquitted by the legislature, before whom the charge was preferred. He died Jan. 4, 1789, in his 51st year.

NELSON'S RIVER, in the British possessions in North America, flows from láko Wamipeg into Hudson's bay; lon. 92° 46′ W.; lat. 57° 2′ N. A part of the river is called the Saskashawan. Its whole

length is about 1450 miles.

NEMEAN GAMES, so called from the small town of Argolis, where they were celebrated (Nemaea, in the Peloponnesus), originated, according to tradition, in the funeral games which were established in honor of Opheltes (see Hypsipyle), who was killed in his youth by a dragon. The heroes who went to Thebes called him Archemorus (the beginning of sorrow). He was the son of Lycurgus and Eurydice. Funeral games at the graves of distinguished men or favorite individuals, were very common in ancient times. Those of Opheltes, according to tradition, had this peculiarity, that they were renewed every three years. Another account relates, that the Neusean games were established by Hercules, in honor of Jupiter, after he had destroyed the Nemman lion, whose den was about 15 stadia from Ne-現場となった。**将**数(元)

mæa. A third account combines these two reports, stating that these games originated in the funeral games of Archemorus, but were renewed by Hercules, in honor of Jupiter. The plain of Nemeza is now inhabited by a single shepherd. Three Doric columns of the temple of Jupiter stand in the centre, with ruins scattered around. The Nemean games were less solemn than the Olympic and, Pythian. Sometimes, though not very often, time was divided by Nemænds (in the same manner as it was commonly divided by Olympiads and Pythiads). The Chronicon of Eusebius gives the second year of the 53d Olympiad as the first of the Nemæads. The Nemæan games were partly gymnastic (corporeal), and partly musical (intellectual), and resembled, in their regulations, the famous Olympic games. (q. v.) The judges of the combats (agonothetæ) were chosen from Argos, Sieyon and Corinth, and wore, in commemoration of the origin of the celebration, black mourning garments. They were distinguished for their importiality. Originally, the reward of the victor was a wreath of olive-branch; afterwards, of green ivy. (See Pindar.)
NEWEAN LION. (See Hercules, and No-

mour Games.)

NEW. Con. : the contraction of nemine contradicente, which signifies, "no one

opposing," or "unanimously.

NEWESIS, in the Greek mythology; according to some, the daughter of Erebus and Night: according to others, of Night alone: other accounts make her the daughter of Dike (Justice), or of Jupiter and Necessity, or of Ocean and Night. She is the goddess of retribution, the tamer of the passions, the avenger, the enemy of pride and haughtiness; and she watches over the observance of the honors due to the dead; on which account a yearly festival, in memory of the departed, was called, by the Greeks, Nemesia. Nemesis is represented under the figure of a majestic female, clothed in a tunic, with a peplum thrown over her, and a crown (which is sometimes surmounted by stags and a Victory) on her head. With the right hand she grasps a part of her garments over her breast, and thus forms the . ell measure; in her left hand she holds a cup, or a bridle, &c. On coins, she appears drawn in a car by dragous, sometimes wearing a mural crown, and rarely winged. The great number of coins and gems on which she is found, proves her worship to have been extensive and popular. She is also called Adrastea, from

Advastos, who, according to tradition, erected the first temple to her in Advastea, or in Cyzicus; and Rhamnusia, from a small village of Attica, two miles from Marathon, where stood a statud of her, made by Phidias, from the marble brought thinder by the Persians, for the purpose of erecting a trophy of their expected victory. She is sometimes considered the same as Leda.

NEMOURS; a French town, in the department of Seine-et-Marne, three and a , half leagues south of Fontainebleau. Just 4150 inhabitants. It originated with a castle called Nemus. Louis XIV gave the duchy of Nemours to his brother Philip of Orleans; and the house of Orleans retained it until the revolution. second son and fourth child of the present king of the French, Louis Charles Philip Rafael, bears the title of duke of Nemours, which was his title before his father ascended the throne. He was born Oct. 25, Feb. 3, 1831, he was elected, by 1814. the Belgic national congress, king of the Belgians; but his father declined the offered crown, in a formal audience, February 17, to avoid disturbing the peace of Europe. Laflitte was then prime minister.

Mennius, an ancient British historian, abbot of Baugor, is generally said to have flourished about the year 620, and to have taken refuge at Chester at the time of the massacre of the monks of their monastery. Bishop Nicolson, however, contends, that from his own book, it is evident that he did not exist before the month century. He composed several works, of which catalogues are given by Bale and Pits; but the only one remaining is his Histeria Britanian, or Eulogium Britaniae, which is published in Gale's Hist: Brit. Scrip. (Oxon, 1691).

NECTASTRO. (See Nivarino.)

Neologism (from the Greek in new, and layer a word); a new word or phrase, or new use of a word; in fact, every innovation in a language, lifter it has had a classical epoch. The difficulty of prescribing a just medium in regard to the introduction of new words and phrases, is easily seen, because as long as a language is spoken, it must change and develope itself; and the greatest power on earth would be unable to retain it unchanged. On the other hand, a language is exposed to the greatest corruption if it is left open to all the neologisms of carcless writers. Great genius generally gives currency to In the last century, the a neologism. orthodox in Germany called their opponents acologists, and their doctrines acology.

NEOFIETE (from 1005, new, and 40005, plant); in the Eleusinian and other mysteries, a person newly initiated; among the early Christians, a new convert from paganism; in the monasteries, a new-ice.

Neorama; an invention of Allaux, a Frenchman, for representing the interior of a large building, in which the spectates appears to be placed. Every thing is exhibited to the life by means of groups and shading. The first neoraina was exhibited at Paris in 1827, and represented the interior of St. Peter's church in Rome, with the doors open and a distant pros-

pect. (See Panorama.) .

Nepaul; a mountainous country is the northern part of Hindostan, lying be tween lat. 26° 20' and 30° 20' N., and lon. 80 and 88° E., having Thibet, from which the Himala mountains separate it, on the north, and the English province of Bengal and Oude on the south; square miles, about 52,000; population, 3,500,000. It. first became well known by the war between the English and the migh in 1815, General Ochterlony advanced with such rapidity, that, February 28, he appeared before Muckwampore, the principal fortress of the Nepaulese. The rajah attempted, on the 20th, to recover the heights, which had been previously lost, but was driven back; and on the next day the British took fort Huriapore, the bulwark of Muckwampore, by storm. By this rapid advance, general Ochterlony terminated: the campaign, the issue of which had appeared doubtful on account of the sickness prevailing among the British troops, and compelled the rajah, Mahara Sah Biera ma Sah, to accede (May 4, 1816) to the terms of peace before assented to by his brother. By the articles, the chain of forts on the southern frontier, together with several districts, was ceded to the Pas: India company, and the passage through Nepaul to China was declared free to the company. The rajsh also agreed not to receive any Europeans or Americans into his service? The rajah of Nepaul still possesses Goorea, the land of his ancestors, who first acquired Nepeul in 1768. The country is from 3000 to 6000 feet above the sea, and lies between two parallel ranges of mountains, one on the north, the other on the south; and it can be entered only through mountain passes. Three or four days are employed in ascending the range on the southern frontier from Behar. On arriving at the

highest pass, the valley of Nepaul is spread out before the eye of the traveller. The soil is fruitful and well watered, the · air pure, the climate healthy, and in summer, when the sun is reflected from the high mountains, very hot. In winter there is little ice; the note; wind never blows in these valleys. The seasons are the same as in Upper Hindostan, only the rains set in carlier. The productions are honey, rice, oil, cotton, ginger, iron, mar-ble, &c. The inhabitants are chiefly Hindoes and Newars. The latter are probably of Mongolian and Chinese origin. Besides these two nations, there are other littleknown tribes. The inhabitants are distinguished for the simplicity of their character and manners: the Newars are mostly The religion of the Nepaulese artisms. differs little from that of the Hindoos in Bengal. The custom for widows to burn themselves on the corpse of their lausbands, prevails among them. The Hindoo languages are the Nepaulese, and the Nogari, which is said to be older than the Sanscrit. Cotton manufactures, and the working of iron and copper, are the principal employments. The people make paper from the bark of trees and plants, and distil brandy from rice and wine. The government is despotic, but more moderate than in other countries of Asia. The regular army consists of about 12,600 ... men part of whom are armed with mus-The capital is Catmandoo, with 20,000 inhabitants. See Hamilton's Account of the Kingdom of Nepard (Edinburgh, 1819).

Name virue; a drink which was fabled, by the poets, to banish the remembrance of grief, and to cheer the soul. The invention was attributed to the Egyptians. According to Homer (Od. iv. 220), Helen learned the art of preparing it from the

queen of Egypt.

NEPENTHES, OF PITCHER PLANT; a singular and celebrated genus of plants, containing three known species, which inhabit Madagascar, the 'East Indies, and the neighboring parts of the continent of Asia. The flowers are diceious; the stem is cylindrical and 'simple; the leaves are alternate, entire, and sheathing at base; they are strongly nerved, and the median nerve, which is larger than the rest, is prolonged beyond the leaf in the manner of a tendril, and terminates in a cylindrical urn. · urn is three or four inches in length by nearly one in diameter, and its orifice is covered with an orbicular lid, which opens and closes at certain periods. It is usually filled with sweet and limpid water, at

which time the lid is closed. In the course of the day, the lid opens, when more than half the water is evaporated; but this loss is made up during the night, and in the morning it is again found full, with the lid closed. The culture of these plants in green-houses is very difficult.

Sephele. (See Athamas.)

NEPURITE, or Jade, is a mineral never observed except in the massive state, and possessed of an impalpable composition or compact texture. Its fracture is coarse, splintery, and, in some varieties, slaty; color green, particularly leek-green, passing into gray and white, rarely with a tinge of blue or red; translucent; hardness approaching that of quartz; specific, gravity, 2532; fracture effected with great difficulty; alone before the blowpipe, infusible, but becomes white. It consists, according to Kastner, of silex, 50:50, magnesia, 31, alumina, 10, oxide of irce, 5.50, oxide of chrome, 0.05, and water, 2.75. Other varieties of the jade are softer, and differ considerably in their chemical composition. The apple-greek variety, tinged with blue, from Smithfield, Rhode Island, consists, according to Bowen, of silex, 14.68, magnesia, 34.031, water, 13.11, lime, 4.25, and oxide of iron, 1.747. Jade has been brought from China and Fgypt. In America, it has been found on the banks of the Amazon. In New Zealand and other islands of the Pacific, it is often made into hatchets, and has hence been called are-stone. In Rhode Island, it occurs imbedded in white limestone, in irregular veins and nodular masses. The pieces from this place, when polished, have censiderable beauty.

Neenture; an Egyptian deity, sister of Osiris and Isis, wife of Typhon, and mother of Anulis by Osiris. According to Diodorus, she was the daughter of Zeus (Jupiter) and Here (Juno). She was also called by the Greek writers Teleute (End), Aphrodite, and Nike (Victory). consider her as the symbol of the Egyptian coast on the Mediterranean; others as the personification of the five intercalary days of the Egyptian year, in which point of view they are called her children. by Mercury, the Sun, and Saturn. Plutarch names them Osiris, Arueris, Typhon, Isis, Nephthys ; Diodorus calls them Osiris, Isis, Tuphon, Apollo, and Aphrodite (Venus). (See Egyptian Mythology, end of article Hieroglyphics.)

NEPISSING; a lake in Upper Canada. about 35 miles long and 20 broad. It is 25 miles north-east of lake liuron; lat. 40° 12′ N.,

NEPOMOK, John of (Johannes Nepomu-. cenus); the patron saint of Bohemia. His true name was John Welflin, and hewas born in 1320, at Pomuk, a small-town in Bohemia. He studied in Prague, and became a preacher there. From humility he refused a bishopric. At a later period, he was made confessor of the queen, and when some courtiers made the king Wencestans suspicious of the fidelity of his wife, he refused to disclose the secrets of her confession, for which the king had him drowned, May 16, 1383 (according to others, March 21), in the Moldau. His day was at first May 6, because his body was then found; at present, it is May 10. He , minethetrue meaning of the mythus which is much revered in Bohemia as a martyr, and his protection is invoked against slander, &c. Pope Innocent XIII recognised him as a saint in 1721, and Benedict XIII canonized him in 1729. The Jesuit Balbin has given his biography in his Miscell, Hist. Boh. It has been asserted of late that no such person as Nepomuk ever lived, but that there was a John of Pomuk, who was archbishop of Prague in 1393. Yet the marble sepulchre of Nepomuk is shown in the cathedral at Prague. According to others, again, he was thrown into the river because he refused to renounce the authority of the archbishop, whose year he was, and who , had excommunicated the chamberlam of the king, and preached against the vicious life of the king himself.

NEPOS. (See Cornelius Nepos.)

NEPOTISM; a word used in the languages of the European continent to signify, originally, the undue patronage bestowed by the popes upon the members of their family (nepotes) by appointing them to high offices in the church, or making them important grants. It was not uncommon for a person viceted pope, to elevate his whole family, so that ever after the family belonged to the richest nobility in Rome. The term has been used also in a more general sense, to denote any patronage bestowed in considera-tion of family relationship, and not of merit.

NETTUNE appears to have been originally known to the Romans merely as the god of horses, and as such to have been confounded with the arcient Italian god Consus. When the Roman state became a naval power, and the Greek mythology was introduced into Rome, attributes of the Grecian Poseidon, or Poseidaon, were transferred to the Roman Neptune, who therefore came to be considered the same god under different names. Neptune was

the son of Seturn and Rhea or Opis, and brother of Jupiter (q. v.) and Pluto. Different accounts are given of the manner in which his mother saved him from the fate to which he was doomed by his father. (See Saturn.) According to some, he was thrown up again after having been swallowed by his father; according to others, Rhea gave her husband a foal instead of the infant, and the latter was secretly educated in Bosotia. After the successful rebellion of his brother Jupiter, Neptune received the dominion of the sea (Pontos er the inland sea, and not the ocean) as his share of the spoils. It is not easy to deterdescribes him as having produced the horse in a contest with Minerva (q. v.) for the possession of Attica. It may imply that the use of the horse was first introduced into Greece at the same time with the worship of the Phænician god Poseidor., by Phoenician pirates, or it may be connected with some symbolical idea. The raises, calms and shakes the sea, and even makes the earth, with its incontains and woods, tremble. He was particular: worshipped in islands and on the seacoase. The Isthmian games (q. v.) were celebrated in honor of him. Beside de phius and other marine animals, the hors, and sometimes the owl, were sacred to him. In the earliest monuments of art, h is represented naked; in his hand he holds the trident, which the Mediterraneau people early used as a harpoon, and as a mark of possession on any coast. He rides over the su face of the sea in a chariot drawn by two horses, accompanied by Nereids and sea-monsters. By his wife Amphitrite, he had two children, Triton and Rhode. The traditions concerning his other children, by various mothers, are by some explained as symbolical of the carrying off of women by pirates. Strength, courage, heroic deeds at sea, alsoobtained for men the appellation of sons of Neptune. The epithers applied to Neptune by the poets, refer chiefly to the sea, to navigation, to the creation of the horse, and also to his power of shaking the earth. Having taken part in the unsuccessful attempt of the gods to rise against Jupiter, he was condemned, together with Apollo, to serve Laomedon, king of Troy. Neptune built the walls of the city for Laomedon, but, being refused the pay promised him, caused an inundation, and sent a terrible sea-monster to infest the country. In the war of Troy, he was on the side of the Greeks, and in the battle of the gods, he encountered Apollo.

NEPTUNIANS, or NEPTUNISTS, and those who maintain the opinion, that the form of the earth and the revolutions which it has undergone have been produced entirely by the action of water. (See Geology, and Vulcanists.)

Negrous; see-nymphs, daughters of Nercus. They were fifty in number, and they had, like their father, the gift of prophecy and the power of assuming dif-

ferent shapes.

Neneus; an inferior divinity of the sea, sometimes also the sea itself, when it is calm. He was the oldest son of Pontus (the Sea) and Terra (the Earth). The poets represented him as a faithful, benevolent old man, the friend of justice and moderation, and the enemy of oppression. He possessed the gift of divination in a greater degree than all the gods of the three elements,-air, earth and water,-and like other gods of the sea, could convert himself into all shapes. By Doris, the daughter of Oceanus, his spouse, and other goddesses, he was the father of the Nereids. chief place of residence was the Ægean When Paris sailed through this sea with Helen, whom he was carrying off, Nercus, according to the beautiful ode of Horace, warned him of the destruction of 'Proy. In the ancient works of art, and also by the uncient poets, he is represented as a malicious old man, with a wreath of sedie, sitting upon the wayes, with a sceptre in his hand.

NERL (See Gulfs.)

 NEGI, Authory, deserves to be mentioned as one of the first chemists, at a time wheath matural sciences were called occuit. Ite was born in Florence about the eniddle of the sixteenth century. Though' he had received holy orders, he always refused any benefice, in order to live solely He travelled through for his science. most countries of Europe, and wherever he was unable to study chemistry with distinguished men in any other way, he worked with them as an assistant in their Liboratòries. But his active life came prematurely to a close. There is only one treatise by him extant, on glass-L'. Irle wiraria distinta in libri sette; ne' quali si scoprono maravigliosi effetti e s'insegnano segreti bellissimi del vetro nel fuoco, ed altre cose curiose (Florence, Giunti, 1612, 4to.), a work which has been translated in-German, French, Latin, English. w The best translation is said to be that by Holbach, in French, with the notes of the German and English translations, and many additional ones. Though chemistry has made immense progress since the

time of Neri, his work, nevertheless, deserves to be read. The coloring of glass, it is well known, was a great subject of attention at a certain period, and attained a perfection which, he ving lost, it has not since reached.

NERI, St. Philip, the founder of the Congregation of the Oratory in Italy, was born in Florence in 1515, of a noble fami-,ly. From early youth he distinguished. himself by piety and application to study. A rich uncle, a merchant, intended to make him his sole heir; but Neri left him secretly, and went to Rome in 1533, where he became instructer in the house of a gentleman of Florence. At the age of twentythree, he sold his books, and gave the price to the poor. He now devoted himself entirely to the sick and pilgrims. In 1548, he established the fraternity of the Holy Trinity, for the purpose of aiding straitgers who came to Rome for devotional purposes, and soon after he founded the hospice for the reception of pilgrims, which has become one of the finest in Rome. He did not receive orders until the year 1551, having considered himself until then unworthy of them. Soon after, he entered the community of St. Jerome, and instructed children, and finally also young ecclesiastics, who were called oratorians, because they placed themselves before the church to call the people to prayer, In 1564, Neri collected if (se disciples) into a community, and gave them regular statutes, but imposed no vow, wishing that they should always remain united by the bonds of charity only. Gregory XIII approved of this congregation in 1575, and gave then: the church Sta. Maria di Vallicella. The congregation soon spread over Italy. Baronius, one of his most distinguished disciples, assisted him in his last sickness. He died May 26, 1595. His letters were published at Padua in 1751. He wrote several other works; also poems, to be found in vol. i of Rime Oneste. A numberof the poems of his youth he ordered to be burnt shortly before his death. His life was written by Ant. Gallonio, his disciple, and the eye-witness, as he says, of most of the extraordinary deeds he describes. His life is also to be found in vol. v of the Acta Sanctorum. (q. v.) Baronius succeeded him as general of the society in 1593.

NERLI, Philip, a Florentine historian, was born in 1485, in Florence, of a patri-

t The followers of this saint are caned, in train, also Filippini (Philippians, from their founder)

At the time of the jubilee in 1600, this establishment supported, during three days, upwards of 140,500 men and 25,000 women.

† The followers of this saint are called, in Italy,

cian family, and early prepared himself, by various studies, for the duties to which his birth called him. Cosmo I made him a senctor. He died in 1556. He left in manuscript, Commentarj de' fatti civili occorsi nella Cilta di Firenze dall' Anno 1215 al 1537, not printed until 1728, though the nephew of the author had presented it to Francis Medici II, requesting his opinion respecting the propriety of publishing it. Francis of Medici therefore seems to have preferred not to see it published. To appreciate a history, we must always know the character of the historian, particularly if he treats of times much agitated by party struggles, which affected him personally. Nerli, though not desirous of a monarchy, was, in his dispo-sition, aristocratic. His ancestors had been consuls 300 years before him; women of his family are mentioned by Dante. His uncle had the first Homer printed. To himself, when young, Horace was dedicated, "because he allowed no day to pass without reading him." He formed himself in the gardens of the Rucellai, in the society of Macchiavelli, who dedicated a chapter to him. He says, in the preface of his work mentioned above, that his endeavor is to show why the citizens of the great republic have subjected it to one single house (the Medici). Some have reproached him of flattery; but Ranke, in his excellent work Zur Kritik neuerer Geschichtschreiber (Leipsic and Berlin, 1824), says, that he treats that branch of the Medici, at least, which ruled to the death of Clement VII, without hatred indeed, but without partiality.

NERO, Lucius Domitius Ahenobarbus (after his adoption, called Claudius Drusus), the son of Caius Domitius Ahenobarbus and Agrippina, the daughter of Germanicus, was born at Antium, A. D. When Agrippina afterwards married the emperor Claudius, he was adopted by him, and speceeded him in the government, A. D. 54, Augustus, the first Roman emperor of the family of the Clesurs, commenced his reign with cruelty, but ended with clemency. Nero, the last, began mildly, but ended cruelly. He was excellently educated. Burrhus instilled into his mind all the knowledge and principles necessary to the formation of a great general and statesman, while Seneca made him familiar with philosophy and elegant literature. The beginning of his reign even surpassed the expectations founded upon the union of his great talents with such an education. A sentence of death being presented to him for his signature, he expressed a wish that he had never learned to write. But the fluttery and the seductions of his courtiers. particularly of his freedman Narcissus soon brought to light a character which till this time had slumbered. At the age of seventeen years, Nero gave himself up to the greatest excesses of sensuality and cruelty. He first poisoned Britannicus, to whose prejudice he had ascended the throne by the assistance of Agrippina, and afterwards, fearing his mother's ambition, put her to death also. . The ridiculous desire of being esteemed a great performer in music, ruled in his bosom soperior to all other passions. He perform: ed in public, and placed soldiers, as spies, to observe those who did not appear inclined to admire his voice or his execution. He wished also to be distinguished in the chariot race. He traversed all Greece with a retinue of artists, and, of course, won the first prizes in all the cele brated contests and games. Ser suality made him ingenious in gluttony and in the gratification of his natural propensities; extravagance made him covetous, and danger made him cruel. The most distinguished victims to his cruelty, besides Britannicus and Agrippina, were his instructers Burrhus and Seneca, the poet Lucan, and his wives Octavia (daughter of Claudius and Messalina, whom Iso divorced on pretext of barrenness, and then banished to the island of Pandaleria. where he soon after caused her to kill herself by opening her veins), and Poppara Sabina. "My predecessors," said he, "did not know the rights of monarchy. People may hate me, if they only fear me. For the gratification of an insane caprice, he set fire to Rome, merely, as it is reported, that he might have a real representation of the conflagration of Troy. The most beautiful monuments of art and of history were burnt to the ground in this fire, which lasted nine days. He .. transferred the guilt of this action to the Christians, and caused them to be cruelly persecuted for it throughout the empire. As his passion for building was very strong, he caused that part of the city which was burned to be rebuilt in a manner more splendid and magnificent than before. The most remarkable of his buildings was the palace which he erected for himself in Rome, and which was known under the name of the golden house. His extravagance in other things -clothes, hunting, furniture, &c.—was as boundless as his munificence to the people ' of Rome, whom he euriched by great

largesses (largitiones; common in the republic only under certain circumstances), while the provinces were oppressed by the weight of taxes. Several conspiracies were formed against him in Rome, which ended in the destruction of the bundles composing them are mutually inconspirators themselves. At last, the revolt of Galba, his governor in Spain, whose cause the senate also espoused, succeed-The tyrant anticipated the punishment which awaited him, by committing suicide, A. D.: 68. Although the manifestations of joy were great at his death, vet persons were not wanting who still admired, deified and lamented him. They strewed his grave with flowers, and placed his statue near the rostrum. short, his memory was so precious to a great part of the people, and the soldiers, whom he had endeared to him by liberalitv and indulgence, that many impostors succeeded, for a time, in passing them-selves off for Nero. Nero was less inimical to ingenious raillery because possessed of much wit himself, notwithstanding he was the first Roman emperor who made use of speeches prepared by another. It is much to be lamented that that part of Tacitus which contains a particular description of the character and government of Nero, has not confe down to us.

Nerva, the successor of Domitian, and one of the most virtuous of the Roman sumerors. In early life, he held the consulship, and was a man of a cultivated mind, and not without poetical talent, but was advanced in age when he ascended the throne, A. D. 96. He, nevertheless, per ormed many beneficent acts, provided for the public tranquillity and the execution of justice, and relieved the poor. Notwithstanding this, there were many sufficiently to him, particularly the soldiers of the guard, and there was even a conspiracy formed against him. He died A. D. 98. Trajan was his successor.

NERVES. The nerves of the animal , frame are composed of bundles of white parallel inedullary threads. Every bunde is surrounded with a soft sheath full of blood-vessels, and whose finest branches terminate in the substance of These nerves are spread the nerves. through the whole animal frame, and vaigously connected with each other. Only the epidermis, the hair and nails are destitute of them. They are of various size, according as they are composed of more or fewer bundles of medullary threads. In the course of the nerves there are a number of knots; these are called ganglions; they are commonly of an oblong

shape, and of a grayish color, somewhat inclining to red, which is perhaps owing. to their being extremely vascular. In particular parts of the body, the nerves come in contact with each other, and the terwoven to such a degree that they can-not be disjoined without violence. These communications are called plexuses, and are found particularly in the abdomen, behind the stomach, and in the region of the pit of the stomach, near the liver, mesentery, heart, &c. The final termi-nations of the nerves are various, particularly those which run to the organs of sense. In the auricular organ, for instance, the nerves terminate in a soft mass like pap, surrounded with moisture; the optic nerve terminates in a medullary skin; the nerves of taste terminate in little papilla: those of feeling in the points of the fingers, and the surface of the skin in general; those belonging to the muscles are lost in the texture of the same, so that their terminations cannot be accurately ascertained. All the nerves are embraced under the general head of the nervous system. This is most intimately connected with the brain and the spinal marrow, which may be regarded as a prolongation of it. The brain is the centre, from which or to which proceed all impressions communicated to the nerves. The substance of the nerves is the same medullary matter which constitutes the brain, resembling the white of an egg, and appearing, to the unassisted eye, as if composed of little balls. The central termination of all the nerves is in the brain and spinal marrow, where they branch out into the skin or the interior of the organs. The various isolated, and, in part, heterogeneous structures of which the body consists, which are mechanically joined by the cellular tissue, the membranes and the ligaments, are united into one harmonious whole by means of the nerves. The vascular system connects them only so far as it furnishes the supply of blood required for their support and their operations; but it is properly the nervous system which imparts to all their life, governs their operations, and establishes their sympathy and mutual action. effected by means of that portion of the nervous system which is diffused through the abdomen, forming many nets and plexuses, and constituting what is calledthe regetative, or reproductive, or organic nervous system, because the growth and support of the body are effected by it. Another part of the nervous system af-

fords the means of consciousness and secretion and nourishment continues. which excites the nerves that put in action the muscles of voluntary motion, Diseases.)

and those which supply sensibility to the Nervous Diseases (neuroses) are such organs of sense, and couvey to the brain the impressions thence received. The . nerves which communicate with the organs of sense, run in pairs-the first pair (olfactory nerve) to the nose, where it is spread over the surface of the nostrils, and forms the power of smell; the second (optic nerve) to the eyes; this is jound, thick and penetrates from behind the ball or globe of the eye (through a gund plate of the firm coat of the ball, Intaining many little, apertures), and is spread out on the inner and concave surface of the globe into a thin coat called the reting, on which the images of external objects are formed; the eighth pair (auditory nerves) are spread over the interior of the car, and are sensible to the vibrations of the air. From the numerous ramifications of the ninth pair come the nerves of the tongue, which give rise to the sense of taste. The general sense of feeling is situated particularly in the skin; and peculiarly in the points of the fingers. This sense is produced by a variety of nerves diffused over the skin, and those parts which are most sensitive are supplied with the greatest quantity of nerves, which form entire se-. ries of contiguous nervous papillæ; for instance, at the lips, the points of the fiugers, &c. Thus the action of the nerves is reciprocal from without inwards, and from within outwards-the first, because the impressions on the organs of sense are communicated by the nerves to the brain, and there form perceptions and feelings; the second, because the voluntary motions are produced by communications from the brain to the nerves, while the reproductive part of the nervous system quietly supports the whole machine, and, in a sound state of the body, is recognised only by the operation of the appetites, and by a general feeling of case throughout the system, but, in a diseased state, gives rise to general uncasiness and pain. The power of the nervous system has no fixed point, but is variable, even in the same subject. In sleep, the activity of the cerebral system is impaired, that of the reproductive system heightened; therefore, in quiet sleep, the operations of the senses and the voluntary motions cease, while the activity of the organs of respiration and circulation, of digestion,

voluntary action. This is the brain or From what has been said, it appears that cerebral system (see these two articles), the whole action of the body dependent

> as consist in disturbed affections of sensor and motion, mattended by any chronic or acute inflammation, or hemorrhage, or by any disturbance of the circulation. Nervous pains are called neuralgia: spasms are involuntary contractions in organs which have muscular fibres, or which are merely susceptible of contraction; convulsions are involuntary and irregular contractions, alternating with relaxations, in one, or several, or all of the muscles, simultaneously or successively; telanus is a permanent contraction of a certain class of muscles, ordinarily followed by death; contraction is a retraction of the flexor muscles of one member or of two parallel members; paralysis is the diminution or loss of the sensibility of an organ of sense, or the contractility of an organ of motion. The pains, spasms, paralysis, take different names, according to the parts affected. The most remarkable of all the neuroses is apoplexy (q. v.), which is characterized by the suspension or successive loss of sense and understanding, as well as of motion. The affections of the mind, known under the names of mental alienation, insanity, idiory, &c., are also neuroses; that is, disturbances in the action of the nervous system. It has been a asserted that nervous diseases are rendered more common by the progress of civilization; and, in fact, the nerves become more irritable, and therefore more liable: to be diseased with the progress of intelligence. But the refinements of the moderns in their food and drinks, the use of fermented liquors, wine, coffee and tea, are the most frequent causes of nervous maladies. The early and excessive use of these liquids provokes the nerves, and ' diseases the stomach, and gives rise to cerebral fevers in children, to the yapors." or hysterics (q. v.) in women, to hypowhondria (see hypochondriasis), apoplexy , and paralysis in mon. It is not clways easy to distinguish the symptoms of newrosis from those of inflammation; but, his the treatment in the two cases must be entirely different, it is of the greatest inaportance to use every caution in this respect. Particular medicines, which were considered as specific remedies in varous. liseases, were formerly in use; but experience has proved, that warm bathing, soothing, drinks, vegetable dict, exercise, ...

recreation, sometimes diesding, at others rubeficients, ophuro in a few cases when the pain is great, and Peruvian bark, are the best entagonists of neurosis. The treatment of nervous diseases, however, has often embarrassed the scientific practitioner, as they often resist the most skilful and sagacious applications. (See the unicles Nerves, Mental Derangement, &c.)

NESS; a termination common in Scandinavian geographical names, and signi-

fying promontory.

NESSELRODE, count Charles Robert de. Russian privy counsellor and secretary of state for foreign affairs, was born in Livonia, in 1755, of an ancient German family, which had held the rank of counts since 1710. He early entered the diplomatic career. Count Cape d'Istrias (q. v.) shared with him the direction of foseign affairs in the cabinet of St. Petersburg until 1821, when the revolution of the Greeks and the policy of Russia towards the Turks, caused Capo d'Istrias to leave the ministry, since which time, count Nesselrode has stood alone at the bend of foreign affairs. (See Schoell's Hist, des Trailés de Paix, vol. x and xi.) He concluded, March 19, 1813, a trenty with Prussia, at Breslau, and, June 15, 1813, a treaty of subsidy with England, at Reichenbach: he then concluded, Sepa tember 9, at Teplitz, the treaty between Russia and Austria. In 1814, he followed the emperor to France, and signed, March 1, the quadruple alliance at Chau-In the night of March 30, he and Count Orloff, on the part of Russia, count, struct their nests so slightly, and with Paar, on the part of Austria, and marshal such a scanty provision of materials, that Marmont, on the part of France, signed the convention by which Paris was to be surrendered. All the notes issued at that time by the allies, as well as the peace of Paris, 1814, are also signed by count Nesselrode. At the congress of Vienna, he was one of the most active members. was lie who delivered the famous Russian note of December 31, 1814, to Austria, Prussia and Great Britain, which pronounced the new division of Poland and the contion of the chief part of Saxony to be bright. He signed, March Rt, 1815, the continuity of Napoleon, and, on March 25, the renewed treaty of Chaumont. Since then, count Nesselrode has been one of the Grecian heroes at Troy for wisdom, the most active diplomatists of the holy al. the consequence of his great age (herica limes, and followed the emperor Alexander to Aix-la-Chapelle in 1818, to Trop ricularly celebrated for his mild and perrough in 1822. His services have been ties Homer has attributed to him in the rewarded by many Russian and foreign Hiad. Nestor ras the son of Nelega and

orders, and very considerable grants of lands from his sovereign.

NEST; the place or bed formed or used by a bird for incubation, or the mansion. of her young until they are able to fly. The word is also used for the bed in which certain insects deposit their eggs. The construction and situations of the nests of birds are as remarkable as the variety of materials employed by them. Some birds build their nests with what, in the case of rational beings, would be called great ingenuity; others with the greatest negligence. They seem to be governed in the process merely by instinct.
In fact, naturalists place this class of animals below the mammalia. Thus birds of cooler climates, that build early in the spring, require warmth and shelter for their young, and the black-bird and thrush's line their nests with a plaster of clay, perfectly excluding the keen icy gales of the season; yet, should accident destroy; this first abode, they will construct another, even when the summer is far advanced, upon the model of the first, and ? with the same precautions against severe weather, when all necessity for such provision has ceased, and the usual temperature of the season rather requires coolness. and a free circulation of air. The housesparrow will commonly build four or five. times in the year, and, without the least " consideration of site or season, collect a great mass of straw and hay, and gather many feathers to line the nest. wood-pigeon and jay, which build on the tall under-wood in the open air, will conthey seem scarcely adequate to support

ing to their species is endless. NESTOR was the most distinguished of the phrase a Nestor); he was also per-

their broods; and the rook's nest is, at times, torn from its airy site, or its eggs

are shaken from it by the gales of spring.

The house-martin builds its earthy shed

under the roof of the house, &c., and usually brings out its young in July and

August; but one rainy day at this period, ,

attended with wind, will often moisten the earth that composes the nest; the

cement fails, and all the unfledged young

ones are dashed upon the ground. The

variety of spots chosen by birds accord-

Chloris. He was educated at Gerania, and succeeded his father as prince of Pylos. In his youth and manhood, he distinguished himself by many bold exploits, but also early acquired the reputation of a prudent counsellor and persuasive orator. signalized himself among the Lapithe, whom he assisted in their war with the Centaurs. After Lyncous and Idas, the . sons of Aphareus, were killed by the Dioscuri, he also became king of Messenia. Notwithstanding he had lived through two generations, when the expedition to Troy was undertaken, he, nevertheless, took part in it, and conducted the forces under his command in twenty, or, according to some accounts, in ninety vessels to Troy. Whether we reckon a generation at a hundred years, as the ancients did, or at thirty years, es is usual with us, in either case Nestor was too old to take a personal share in the combats before Troy. The part which is attributed to him in the Iliad, is that of an experienced counsellor. He endeavored to produce a reconciliation between Agamemnon and Achilles, and encouraged, advised, instructed and blamed the Gre-Without his interference, eian heroes. the riege of Troy would more than once have been abandoned. After the captare of Troy, he returned to Greece. According to the Odyssey, Telemachus here visited him to obtain information concerning Ulysses. Homer states Eurydice, the oldest daughter of Clymene, to have been his wife; others, Anaxibia, the daughter of Craticus. He had several sons and daughters, but they are not distinguished: After Nestor had outlived in history. three generations, he died quietly at Pylos, where, even to a late period, the inhabitants have pretended to distinguish his dwelling and his grave.

Nester, a Russian historian, born about 1056, was a monk in the Petscherian or cavern monastery in Kiev, and died after 1116. Besides biographies of abbots and other pious members of his monastery, the fragments of which were collected by another hand, he wrote a chronicle in his vernacular tongue, which is an important contribution to the history of the North, having evidently imitated and profited by the Byzantine historians with regard to the most ancient history. The other sources from which he obtained inmation are unknown. He wrote much of the mtemporary, or from the traditions therefold monk of the monastery, Jan. ne work is modelled according to the of his age. Pious reflections and dation, of dige. مثاملة

scriptural language are frequently inter woven with the narration, and the persons are usually introduced speaking. But the original text of his chronicle is lost, and by the interpolations of those who have continued the history (bishop Sylvester of Kiev, and many others) to the year 1203. it is altered to an incredible degree so that no correct decision can be passed upon his historical merits before strict inquiries have been made to determine how much of the historical information now extent is derived from the ancient Nestor. It has never yet been determined with certainty to what year his researches extend-Schlozer has rendered great service to this father of Russian history, by the publication of his unfortunately not completed work, Nestor's Russian Annals (from 802 to 1110), compared with the original Sclavonic text, and with the errors and interpolations expurgated as far as possible, explained and translated (into German only to the year 980, Gottingen, 1802-9, 5 vols.), besides which may be mentioned, as an abadgment and improvement, Jos. Müller's Ancient Russian History, from Nestor, with reference to Schlozer's Russian Annals (Russische chenden), which are here corrected, completed and enlarged (Berlin, 1812). part of Nestor's chronicle from the Poschkinian manuscript was printed for the Russian historical and antiquarian society (Moscow, 1814, Timkowsky's edition).

NUSTORIUS, and NUSTORIANS, (See Sprian Christians, and Christians of St.

Thomas.)

NESTS, P. L. C.R. (See Birds' Nests.) NET (Italian netto, pure); that which remains of a weight, quantily, &c., after making certain deductions. Thus, in mercantile language, the net neight is the weight of any article after deducting ture and tret: net profits, income, &c., is the absolute profit or mecone, after deducting expenses, interest, &c. It is opposed to gross (brutto).

NETHEBLANDS, KINGDOM OF THE History of the Netherlands.—I. Till 1548, or till the Union under the House of Austria.—The Netherlands comprise the Lowlands, or north-west declivity of the great basin formed by the forest of Ardennes, the Vosges, the Hunsdück, the Siebengebirge, the Spessart, Odenwald and Hortz, in the valley of which the Rhine flows down through the Netherlands. The southern portion of these Low Countries belonged, in Caesar's time, to Gaul (Galli, Rejeac). That great general declared the Belgians the most warlike of the Galse.

The northern portion, situated between the Mouse, the Ural, and the Rhine, was called the Island of the Batavians; and, with Priesland, formed part of Germany. The part of the Nether-lands north of the Rhine, was inhabited by the Frisians, who were, as well as the Batavians, a German nation. We are made more particularly acquainted with both, from the struggle which they so honorably sustained, under the command of Civilis, against the Romans. At subsequent periods, we find them engaged in commerce and piracy, and they were finally overnowered by the Romans. In the fifth century the Batavians, and in the sixth the Belgians, were reduced to submission by the Franks; but the Frisians were not subdued until the seventh century. (See Belgions, Batavians, and Frisians.) By the peace of Verdun, in 843 (see France), Batavia and Friesland were annexed to the new kingdom of Germany, and administered by governors who eventually because independent. In the eleventh century, the country was divided into duchies, counties and imperial cities: Brabant or Lower Lorraine, and afterwards Luxemburg, Limburg and Guelders, were governed by dukes; Planders, Holland, Zeeland, Hainault, Artois, Namur and Zutphen, by counts; Friesland Proper remained a free Jordship; Utrecht because a bishopase: the secular authority of the bishop extended over Groningen and Overyssel. Of all these rulers, the .counts of Flanders were the most powertid: and, after their possessions had passed, a 1953, to the more powerful house of Burgundy, the latter, partly by marriages, partly by force or cession, obtained possession of the largest part of the Low Countries. The last duke of Burgundy, Cherles the Bold (q. v.), fell, in 1477, in battle with the brave Swiss; his daughter Mary, by her marriage with the emperor Maximilian, brought the Netherlands to Austria, and Charles V. grandson of Maximilian, born in the Netherlands, united (1548) the 17 provinces with Spain, by the pragmatic sanction, as forever inseparable from it, according to the rule of primogen-From 1512, they formed, under iture. the name of the Circle of Burgundy, an appendage to the German empire. East Friesland continued, under its own princes, attached to the circle of Westphalia. -11. Till 1810, or till the Union with the French Empire. Under the reign of Churles V, the Protestant religion, though severely 1 posed, spread in the Belgie and Bata-. "in provinces. The number of persons

executed, during his reign, in these countries, for heresy, is computed at 100,000. The rulers of the Netherlands, even Charles V, had always respected their privileges and ancient liberties, by which means the country had been rendered prosperous, and had been a source of wealth to the monarche. Charles's son and successor, the cold tyrant Philip II, abandoned the maxims of his prudent predecessor. Born in Spain, he treated the distant Netherlands with the greatest severity. His governors, especially the cruel Granvella, assailed the established rights of the provinces; and, by means of the inquisition, all freedom of religious opinion was to be exterminated. These measures excited the wrath of a free people; great numbers of industrious artisans, particularly workers in wool, fled to other countries, especially to England and Saxony; the nobility conspired in detence of their rights (see Guenz); and the Protestants publicly celebrated their divine worship with all the defiance of enthusiasm. When Granvella was recalled, in 1561, it was too late to extinguish the conflagration he had kindled; except by force. Philip sent the bloody Alva (q. v.) under the axe of whose executioner fell the leads of the noblest of the nation-Egmont and Hoorn. The prudent prince of Orange had disappeared only to reappear in arms, while Alva sacrificed thousands to his fanatical rage. Even the moderation of his wise successor Zuñiga. could not calm the excited spirits; and the politic prince of Orange, though often defeated by don John of Austria and Alexander of Parma, finally came off victorious in the unequal conflict for freedom and religion. The struggle would have been sooner terminated, had not the different situation of the Dutch provincesthe nutual jealousies of the nobles, each aiming at his own aggrandizement, and the unhappy religious suspicions prevailing between the Catholics and Protestants -- done much to retard the victory. Almost all the other provinces joined, indeed, at Ghent, in 1576, the open rebellion of Holland and Zeeland; but the abilities of the Spanish governor, the prince of Parma (see Farnese), were successfully employed in reducing the most southern, or, as they were called, the Walloon provinces, to the Spanish power; and, soon after, in subjugating Brabant and Flanders, by force of arms, in effecting which he was much assisted by the flight of the most intelligent and influential citizens, who repaired mostly to Holland. In 1579, the five

northern provinces,-Holland, Zeeland, Utreeht, Guelders and Friesland,-concluded the celebrated union of Utrecht, by which they declared themselves independent of Spain. They were joined, in 1580, by Overyssel, and, in 1594, by Groningen. Thus, after the united provinces had renounced their allegiance (July 26, 1581) to the king of Spain, "as a tyrant," acose the republic of the United Notherlands, afterwards commonly called Holbuil, from the province of that name, which was superior to the others in extent, population, riches and influence. After the assassination of William (q. v.) of Orange, Jply 10, 1584, Mourice (q. v.) became stadtholder (governor), and followed the steps of his predecessor. His victories at Nieuport and in Brabant, the bold and victorious exploits of the Dutch admirals against the navy of Philip II (q. v.), the wars of France and England against Spain, and the apathy of Philip II, caused, in 1609, the peace of Antwerp, of 12 years' duration. But Holland had yet to go through the thirty years' war (q. v.), before its independence, now recognised by all the powers except Spain, was fully secured by the peace of Westphalia, While religious disputes distracted the other European states, Holland offered a sate asylum to the persecuted. ligious were tolerated. The continually increasing population found it necessary to seek employment beyond the ocean. Compelled by necessity to make war against the Spanish fleets, the republicans - soon became excellent sailors, and enterprising, indetatigable merchants, who visited every sea, and to whom no profit was too distant, no obstacle too discouraging. The commerce of Cadiz, Antwerp and Lisbon fell into their hands; and in this way the United Netherlands were, in the middle of the seventeenth century, the first commercial state and the first maritime power-in the world; for, with about 100 vessels of war, they bade defiance to every rival, while . England and France rejoiced in the humiliation of the dreaded monarchy of Spain. The East India company (q. v.), established in 1602, with a capital of only 6,459,840 guilders, conquered islands and kingdoms in Asia. (See Iudia, Dutch; and East India Companies.) With about 200 ships, they carried on a trade with China, and even with Japan. They alone supplied Europe with the productions of the Spice islands. The gold, the pearls, the precious jewels of the East, all passed through their hands. The West India company was not so successful, on ac-

count of the jealousy of England and France. Holland, nevertheless, for a long time maintained the dominion of the sea; Tromp and Rayter were victorious, and Louis XIV; who had laid a deep plan for humbling the daring republic, was finally exhausted, and obliged to sue for peace. But these conflicts with England and France, and the impolitic participation in the Spanish succession war, enfeebled Holland; while the republican jealousy of the ambition of the house of Orange kindled the flames of party rage and civil war, which prevented the adoption of a fixed and consistent course of policy. From the time of Maurice and Barneveldt, the two leading parties (the Orange and the patriotic, or the anti-Orange) had gradually assumed various shades of opinion, under leaders who pursued their own selfish views. By the same causes, religion was brought into play; the strict Calvinists were, in general, Orangists; those of other opinions, patriotic; thence the frequent political convulsions, caused sometimes by the encrowlments of some stadtholders, sometimes by popular commotions, and which were always preceded by an arbitrary administration of government, or unsuccessful wars. This was shown in 1618, 1672 and 1702, and, more fully, in 1717, in which year the bouse of Orange triumphed over the republican party. William IV received the dignity of stadtholder in all the seven provinces, hereditary in his male and female de-The Spanish or Catholic scendants. Netherlands had, meanwhile, become the ! ta. I apple of discord, be which Austria and France continued for two centuris. By the peace of the Pyrenees, in and of Aix-la-Chapelle, in 1668, was finally compelled to code to the all Artois, some places in Fland, Haimadt, Namur and Luxemburg; and these countries were subsequently called the French Netherlands. By the peace of Utrecht, which put an end to the Spanish succession war in 1713, the Spanish Netherlands were restored to the house of Austria, which held them till the French revolution, though they rebelled against Joseph II, especially under Van der Noot. In 1782, that monarch violated the ballier-trenty of 1715, which gave the republic of the United Netherlands the right of keeping garrisons in some Belgic fortresses on the French frontier; he compelled the Dutch garrisons to evacuate them, and caused most of the fortresses to be demolished. This measure greatly facilitated the conquest of Belgium by the .

French (1792 and 1794), which was ceded countive power was extended to a council to them, in 1797, by the peace of Campo-Meanwhile the internal commotions in the United Provinces were not suppressed. The anti-Orange or republican party, by no means annihilated by the rendering of the stadtholdership hereditary in the house of Orange, raised its head anew in 1786. The disputes in 1781, with Louis, duke of Brunswick, who had been, for 30 years, field-marshal of the United Provinces, and had exercised, for a time, the guardianship of the hereditary stadsholder William V, were merely preludes to the furious conflict that now arose. The wife of the stadtholder, sister of king Frederic William of Prossia, arrested by violent patriots, besought the succor of her brother. A Prussian army of 25,000 men appeared to avenge the insult, and defend the rights of William V. The resistance of the patriots was badly conducted, and unsuccessful. After the storming of Amstelveen, Amsterdam fell (September, 1787) into the power of the Prussians. The superiority of the stadtholder's party was decisive; the rights of the house of Orange were confirmed, with additions, and a close alliance was concluded between the republic, Great Britain and Prussia. The anti-Orange party was, however, only intimidated, while its old hate was imbittered. When, therefore, the victorious banners of republicanized France waved (1791) on the frontiers of Holland, the malcontents rose. Pichegru, aided by the severity of the winter of 1795, and by the favor of the popular party towards the French, made an easy conquest of Holland. The hereditary stadtholder fled, with his family, to Engfand, and the Batavian republic was forwed May 16, 1795. The old provinces wee merged into a sole republic; the legislative power, in imitation of the French, given to a representative assembly; and the executive, to a directory of, The new republic was obliged to cede to France some southern districts, particularly Maestricht, Venloo, Limburg and Dutch Flanders; to form a perpetual alliance with that state; pay a sum of 100,000,000 guilders; and allow French troops to occupy its territories. Six years after, it was found necessary to alter this The repubconstitution (Oct. 18, 1801). lic was again divided into the old provinces; in addition to which the land of the generalty was formed into an eighth. The administration of the government was simplified; the legislative assembly diminished to 35 deputies; and the ex-18*

of state of 12 men. Notwithstanding these alterations, the Batavian republic, incapable of effecting its ends with the feeble remains of its strength, saw its fleets overpowered by those of Britain; its colonies laid waste; its commerce limited to a coasting-trade, and to the domestic consumption; and the bank of Amsterdam rained. By the peace of Amiens, in 1802, it was deprived of one of its richest colonies--Ceylon. Scarcely were the hopes of better times awakened, when Holland was involved in the new wars of France with Great Britain. Surinam and the Cape fell into the power of the British, British vessels blockaded the coasts of Holland, and thus the last nerve of its prosperity seemed destroyed. For the third time, the Dutch constitution was changed April 29, 1805). The state was divided into eight departments, and a legislative body of 49 members, with a pensionary (Schimmelpennink), chosen for the term of five years, and who administered the executive power, was created. council of state, consisting of from five to nine members, was assigned to the pensionary, and five ministers had the care of affairs. The pensionary received an indefinite sum, for the management of which he was not required to give any account. But in this stormy period, even Schimmelpennink's virtue was insufficient for the salvation of a country which, by the loss of its ancient independence, and of its abundant resources, was already brought to the verge of ruin. In this troubled situation, the only alternative seemed to be to incorporate Holland altogether with the French empire. This measure, long meditated, was accomplished in 1806. The brother of the emperor, Louis Napoleon, received possession of Holland as a sovereign kingdom, and, June 5, 1806, he was proclaimed king of Helland. By the treaty made with France (May 24), it was stipulated, that Louis Napoleon should be hereditary, constitutional king of Holland, and that the throne should be secured to his lawful male posterity, with a provision that the crowns of France and Holland should never be united. The king remained hereditary constable of France, and, with all his children, subject to the French imperial family statute. In Holland, he possessed, without limitation, the executive power, the right of appointing to civil and military offices, the right of pardoning, and the exclusive government of the A council of state was also . colonies. constituted, of 13 members, among whom

were four ministers of state. The legisla- - judges in the court of cassation, and 25 tive body consisted of 30 members, and it was provided that this body should be increased in proportion to the extension of the recritory of the state. But Holland was equally unfortunate as a kingdom. It was excluded from the commercial privileges of France, though it had to follow all the wars of Napoleon. The nattional debt was augmented to 1,200,000,000 guilders. The only means by which the merchant could obtain a support was the smuggling trade with England. Almost all the sources of former prosperity were obstructed; and, when Napoleon's decree of Nov. 11, 1807, was promulgated from Milan, and the tariff of Trianon, with all its terrible consequences, went into operation, the trade of Holland was totally rained. In 1807, East Friesland and Jever were annexed to it, but it was obliged to code, in return, the territory situated between the French frontier and the Mense, together with a part of Zeeland, and the fortresses Bergen-op-Zoom, Breda, Hertogenbosch (Bois-le-Duc), Gertruidenburg, Middleburg and Flushing. war against Austria, in 1809, gave rise to the descent of the English on Zeeland (Walcheren), which only accelerated Holland's ruin. The country, at the same time, experienced some great calamines. In January, 1809, the whole tract from Emmericht to Dortrecht and Rotterdam, upwards of 1000 square miles, was ov rflowed; more than 300 men lost their lives in the floods; and several thousand head of cattle, many houses and mills, even whole villages, were swept away. The exertions of the good but weak king, to alleviate the general distress, were of little avail, particularly after the landing of the English as he lost the friendship The misunderstanding of his brother. increased, and the trenty of Paris, of March 16, 1810, delayed the last blow but for a few weeks. Louis, not to involve the country in his personal difficulties, or produce a war with France, the consequences of which could easily be foreseen, voluntarily and unexpectedly abdicated the crown, in favor of his oldest son, a minor, July 1, 1810, and withdrow into the Austrian territory, as a private individual. Napoleon did not, however, sanction his brother's measures. French troops occupied Amsterdam, and, by the imperial decree of July 10, 1810, Holland was incorporated with the French empire; Amsterdam declared the third city of the empire; and six senators, six deputies in the council of state, two

deputies in the legislative body, were The army and assigned to Holland. navy, both officers and soldiers, were received into the imperial service; and the arch-treasurer of the empire, the duke of Piacenza (Le Brun), became the emperor's representative in Amsterdam, and governed the country till Jan. 1, 1811, when the whole constitution was to be modelled on the French. The Dutch departments, which had already been formed in the time of the kingdom, now constituted two military divisions; the conscription was introduced; and half of the forces levied were destined for the army, half for the navy.-111. Till 1815, or till the Union of the Netherlands, under the House of Orange.— Thus all the 17 provinces of the Notherlands were united under the dominion of France. But this state of things continued only till the end of 1813. Napoleon's defeat at Leipsic produced a change in the fate of Belgium and Holland; the armies of the allies advanced against France: a combined Prossian and Russian force, under general Bulow, was sent against the Netherlands, and was joined by a detachment from England, under general Graham. Nov. 20, 1813, general Bulow issued a proclamation, calling upon the Dutch to join the allies against the French. On the 18th of this month, Gysbrecht Charles van Hogendorp, a moderate adherent of the old Orange party, had secretly assembled in his house seme of the members of the old government, who, in 1788 - 95, had ramaged the belin of state, and endeavored expersuade them to a constitute themselves provisionally as the states-general; but they did not dore engage in the undertaking. Hogendorn next invited those who had held the reinst of state in 1786 and 1787, and offer 1795, and who, though formerly anti-Orange, would gladly have acceded to the old republican Orange system, had they not been rendered distrustful by their exclusion from the first meeting. After two unsuccessful attempts, the 17 first confederates (among whom the most distinguished were the count Limburg-Styrum; the lords Van Perponcher, Fagel and Changuion; the generals Sweets, Van Landas and De Jonge; professor Kemper and the advocate Fannius Scholten) appointed from their body Gysbrecht van Hogendorp and baron Van der Duyn van Maasdam, a man of liberal principles, as a provisory government, to preserve the revived republic, till the prince of Orange should arrive from England, whither Van

Perponeher and Fagel were despatched (November 19) to invite him over. The dummyirate exerted themselves to the utmost to accomplish this design. They sent messengers to the head-quarters of general Bulow, at Munster, and to Frankfort on the Maine, to the allied monarchs, who immediately resolved to aid the attempt of the Dutch. Kemper and Scholten were sent as commissioners to induce Amsterdam to declare itself publicly; but, owing to the proximity of the Freuch head-quarters, under general Molitor, at Utrecht, this could not be effected; but they received, nevertheless, the strongest assurances of attachment to the house of Orange. The hereditary studtholder arrived at the Hague November 30, where, after spending a day, he proceeded, in December, to Amsterdam. The com-missioners of the dumnyirate (Kemper and F. Scholten) had, as it is thought, of their own motion, issued a proclamation, coding with the declaration, "The Netherlands are free, and William I is the sovereign prince of this free country." The prince, however, accepted the nomination only on condition that his power should be restrained by a constitution, which (these were his words) "should guaranty the privileges and liberties of the people, and secure them from every encroachment." A board of 14 members. among whom were the former dumnyirate, was intrusted with the framing of this constitution, which, however, did. not wholly answer the expectations of unpreje 'iced and intelligent patriots. More than a third of it was occupied with the tights and privileges of the reigning dymasty; the most important civil regulations, particularly those of the provincial estates, were left to be settled subsequently; and the principles of the judiciary and of the finances remained undetermined. This sketch was made public before voting on it; but all amendments to the constitution were prevented, by the rule forbidding all remarks and discussion in the convention, to which 600 notables, from all the departments of the former United Provinces, were summoned. Only 475 appeared. Among the 125 absent, there were distinguished men, who would neither have submitted to express their opinion merely by yeas or nays, nor would have deemed themselves justified in conferring the sovereignty, without express instructions, or without the loudly-declared assent of the whole nation. Of those present, many acquiesced conditionally, although their votes were reported as un-

conditional. The result was, that there were 26 votes only unconditionally opposed to the plan of the constitution, which was therefore adopted, by a majority of 449 votes. By a resolve of the congress of Vienna, the Belgic provinces were united with the United Netherlands, to form the kingdom of the Netherlands, and the prince William I (q. v.) was recognised by all the powers as sovereign king of the Netherlands. As an indemnification for the cession of his territories of Nassau, in Germany, the duchy of Luxemburg was given to him, with the title of a grand-duchy, which still, however, belonged to the Germanic confederation; the king of the Netherlands, as grandduke of Luxemburg, had a seat (the 11th) in the diet of the confederation, and three votes in the plenum. It was left in the power of the king to make such a disposition as to the succession of the grandduchy, as he might deem proper. To these territories was also annexed the ancient bishopric of Liege.—-IV. Since 1815.— In June, 1815, the king accorded to the Germanic confederation. The incorporation of so many provinces, inhabited by people who, although anciently of the same origin, differed in manners, customs, and religious opinious, naturally rendered a revision of the constitution necessary. Conformably with the 143d article, the 55 members of the states-general were eventually doubled, by the provincial estates, in order to deliberate on the needful alterations. A majority of two thirds was requisite for the adoption of any proposition, which was then to be submitted to the approval of the prince. These preliminaries having been gone through, a convention of the notables was assembled at Brussels, of whom a greater number, in proportion to the population, was from the southern provinces. One sixth of these, however, did not appear, so that the whole number present was 1323, of whom 527 voted for, and 796 against, the constitution. But it being found that not only some votes had been given conditionally, contrary to rule, but that 126 votes were given against the constitution merely from religious motives, these last, together with the 280 absent, were counted in favor of the constitution, for which a majority was thus obtained; and, August 24, it was declared to be adopted. October !1, a treaty on the subject of the Belgie national debt was concluded between the king of the Netherlands and Austria. By the second peace of Paris, November 20, 1815, France ceded to the kingdom of the Netherlands

whatever it still retained of the former Austrian Netherlands, particularly a rich mine-ral district, situated in the centre of the Ardennes, between Hainault and Namur, the loss of which had been severely felt by the inhabitants of the Netherlandish the sovereignty of the small duchy of Bouillon (q. v.), between Luxemburg and Champagne. By the treaty with Eng-land, of October 29, 1814, in consideration of the relinquishment of all the claims of Holland to the cape of Good Hope, and to the colonies of Demerary, Essequibo and Berbice, all the other colonies that Holland possessed anterior to 1794, in Asia, Africa and America, were restored to William L. May 17, 1816, a Netherlandish fleet, under the admiral Van der Capellen, joined the English under lord pelled the dey of Algiers to recognise the European law of nations. On the 25th, a compact was concluded between the kings of Drussia and of the Netherlands respecting the cession of a tract of country to the latter. June 21, 1816, the king of The Netherlands acceded to the holy alliance. The want of a common feeling between the Belgic and Dutch subjects of the new monarchy was strongly displayed on several occasions. The great influence of the Belgie clergy (who were disaffected to a Protestant dynasty), even over the higher classes; the mutual dislike of the Belgians and the Dutch; the dissatisfaction of the latter with the long residence of the court in Brussels; and the division in the Dutch provinces, since the establishment of the monarchy, of the professed adherents of the reigning family into the old Orange party, or friends of a hereditary stadtholderate or republican system, and the new Orange party, or partisans of the monarchy (to which belonged the greater part of the nobility and army)caused much discontent, which was, however, courterbalanced by the increasing confidence in the personal character and the conciliatory policy of the king. In the foreign relations of the kingdom, the government, for the most part, pursued the British system. The marriage of the crown prince with a Russian grand princess produced beneficial relations with that empire. With the bordering state of Prussia, commercial subjects produced some collisions; but between the two reigning families a close connexion has existed since the marriage of prince Fred-

eric, in 1825, with Louisa, daughter of the king of Prussia. The political relations of France with its new neighbor were pacific. With Sweden and Denmark, as with Spain and Portugal, the relations were purely commercial. The commercial relations with the U. States of North province of Hainault, with the fortresses cial relations with the U. States of North of Marienburg and Philippeville. The America had been established on princicrown of the Netherlands also obtained, ples of reciprocity. The Netherlands had recognised the new republics of South America, and, in 1826, sent a deputy to the congress of Panama. Though this incongruously compounded state had made some progress since 1818, under the influence of its constitution, yet the amalga-, mation of the Dutch and Belgians into one nation was not successful; both nations disdained to bear the common name of the state of the Netherlands. reciprocal aversion of the northern and the southern people, stimulated by the events of late years, was several times Exmouth, in the bay of Algiers, and com-, exhibited, with great animosity, in the church, in the army, and even in the chambers of the states-general. But the spirit of dissension entered most deeply into the, popular feeling, and was maintained in vigor for years, by some Catholic clergy, who inculcated opposition to the constitutional system in the pulpit and in the confessional; for the pope had allowed the Belgie priests to grant absolution to the Netherlandish officers of government only when they swore fidelity to the constitution merely in a civil sense: while the government allowed no restriction. The opposition of the Catholic clergy to the government, gave rise, at first, to such great dissansfaction on the part of the people, that the government was obliged to organize a strict police in the southern provinces, which again produced new complaints. It was therefore abolished, April 1, 1818. The government was also forced to put a stop, in 1825, to the . influx of the French missionaries into Bel-On the other hand, the pope issued a bull of excommunication against the schismatics, or against the Jansenist bishops and archbishops of Utrecht, Haarlem and Deventer, who had taken the oath of allegiance to the king. The relations of the Netherlandish government to the Roman court appeared, liowever, to be finally established, after long negotiations, by the concordate signed at Rome, June 18, 1827, by the Netherlandish ambassador count de Celles and the plenipotentiaries of the holy see, which concordate was ratified at Brussels, July 25, 1827. By it, the concordate concluded by Pius VII with Napoleon, July 15, 1801, became

valid in the northern provinces of the kingdom, as it had previously been in the southern. Each diocese had its chapter and its seminary. The chapter of a vacant see was to propose candidates from the Netherlandish clergy; those to whom the king should object, were to be struck from the list; the chapter was then to choose from the approved list the bishop or archbishop, whom the pope was immediately to confirm, if he should find him properly chosen. But the execution of this concordate, which did not meet with the approbation of a great part of the nation, was attended with new difficulties; the government, though desirous of retaining the philosophical college founded at Louvain (q. v.), in 1825, as a dseful institution for all theologians, was obliged to abolish it in 1830. To the five bishoprics (Mechlin—the metropolitan— Liege, Namur, Tournay, Ghent) three new ones (Bruges, Amsterdam and Hertogenbosch) were added. Another cause irritated the Belgie people in particular --the prohibition of the French language. As the difference of languages rendered the anion of the southern and northern Netherlands into one nation difficult, the government, while it allowed the use of the French as well as the Dutch in the proceedings of the states-general, abolished, by the ordinance of July 11, 1818, the use of the French language in judicial proceedings, and by the public authorities, only allowing advocates to make use of it for a certain period. Another royal edict. of September 15, 1819, required that in Linnair, East and West Flanders, and in Antwerp, no other but the national language, the Flemish-Dutch, should be used in public business: this rule, indeed, it became subsequently necessary to soften; but, October 26, 1822, it was anew ordered, that the national language alone, the Dutch or Flemish, should be used in schools, as well as in all public transactions. January 1, 1823, this rule was introduced in all the courts of justice, even in Brussels. The French language, nevertheless, remained prevalent there in society, and it was found necessary, till the end of 1825, to allow the advocates, who had never yet spoken before court in Dutch, to argue their causes in French. In the chambers, especially in the second, speakers were heard in three different languages, who, perhaps, in many cases, did not understand each other; the Belgic deputies speaking French, the mmisters and the ministerial party, partly Dutch, partly Flemish. The suppression of the French language,

therefore, made two opposite parties the secret friends of France-the Catholic Belgians, apprehensive for their thurch, because they believed that the object was to propagate the Protestant faith by means of the prohibition of French; and the Brabanters and Flemings, adhering to France from old predilection. Thus, notwithstanding the prohibition of the French and German languages in public life, the bonds of national unity were by no means tightened. On the contrary, besides the diversity of language and religion, other causes separated the southern provinces from the northern. The administration of justice was to be regulated by a new civil code. This code was drawn up in the council of state, and for several years submitted to a strict examination in the sessions of the states-general. The settling of the national finances was the most difficult problem for legislation. The greatest obstacle lay in the uniform levying of taxes. Belgium, a manufacturing, agricultural country, wished to place the burdens on articles of export and import; while Holland, to space its own commerce, wished to impose them on real estate. The budget, therefore, always employed a great part of the time of the states-general, who convened in October of each year, alternately at the Hagne and at Brussels. The proceedings in the chambers were often exceedingly The new finance law created turbulent. such dissatisfaction among the people, especially what related to the meal tax, that in the grand-duchy of Luxemburg, in January, 1823, disturbances arose, which it was found necessary to quell by force. After deducting the deferred debt, which bears no interest, the true debt amounted, in 1823, to 593,578,900 Dutch guilders, or To promote over 237,000,000 dollars. the unity of the administration, a ministerial council was organized, September 10, 1823, to examine all bills proposed for legislátion. In 1819, the army was diminished to 40,000 men, a force apparently hardly sufficient to garrison 47 fortiesses. A civil militia of 25,000 men was therefore introduced. In May, 1822, the government abolished in the army the punishment of flogging, and established for criminals disciplinarian battalions. The construction of the frontier fortresses, to which the military payments of Franco were appropriated; was diligently prosecuted; and the duke of Wellington several times visited the frontiers of Bolgium to supervise these operations. In 1827, the second son of the king, prince Frederic, was minister of war. The government did a great deal .

for every branch of public education, 1823, the king established premiums for especially for the public schools; it protected the diffusion of information, and was deterred by no expense. In vain did " the government of the Roman church endeavor, in 1825, to withdraw the Catholic institutions for instruction in Belgium from the inspection of the state authorities. For supplying the deficiencies in the history or the Netherlands, a royal commission was appointed, which published unprinted manuscripts. July 8, 1826, the king also established a commission for the statistics of the kingdom. The state of agriculture may be learned from the Brussels monthly periodical, Journal d'Agricelture, d'Economie Rurale et des Manufactures du Royaume des Pays-Bas (since 1816). Several attempts were made to reconcile the conflicting interests of the southern provinces, which contain upwards of 3,175,000 inhabitants, excluding 225,000 in the grand-duchy of Luxemburg, and those of the northern provinces, which contain above 2,100,000 inhabitants. The royal ordinance of June 28, 1818, recommended the formation of agricultural societies in each province of the kingdom. We ought in particular to mention the reclaiming of the marshes, and the cultivation of wild tracts by the establishment of pauper colonies (see Colonies, Pauper), &c. The establishment of these colonies; at Fredericsoord, in the northern, and at Wortel (since 1822), in the southern" provinces, is worthy of imitation. Form rly, 10,000,000 guilders were annually appropriated to the poor sum is not only mostly spared, but an important addition is made to the country. The number of poor, moreover, diminishes, who formerly constituted, in several provinces, one sixth of the population. In 1823, 682,000 persons were computed to stand in need of aid. A bank was established at Brussels, in 1823, with a capital of 50,000,000 guilders (about \$20,000,000), and a general association for the promotion of national industry commenced its operations there. Navigation was advancing. In 1823, 1312 vessels entered the Meuse, and 1323 left it: 2159 vessels entered the port of Amsterdam. A very important thing for the commerce of the country was the completion, in 1825, of the canal from Amsterdam to the Helder. This canal. which is 124 feet wide, over 20 feet deep, about 50 miles long, and cost upwards of 12,000,000 guilders, is a national undertaking worthy of the best times of Dutch commerce. (For an account of it, see the end of the article Amsterdam.) In

the encouragement of naval architecture, and, since 1815, has endeavored to join with most of the neighboring states in establishing the principle of freedom of commerce. New sources of wealth have New sources of wealth have been opened to the commicreial spirit of the Netherlands by the restoration of the colo-For this purpose, the governnial system. ment maintains, in its East Indian archipelago, a considerable navy, and on Java an army of 10,000 men. By means of this force it was able to quell, in 1818, the insurrection on Amboyna and the neighboring islands (which had been, during the war, under the mild administration of the British, and detested the old yoke of the Dutch), as well as another insurrection in the tributary kingdom of Sheribon, on the western part of Java; they were, nevertheless, obliged to combat again, in 1827, the rebellious Javanese. Mach bloodshed also attended the restoration of their dominion over the sultan of Palembang, on Sumafra, and the recovery of the rich tin island Banca. The income of the spice islands had, indeed, lessened, because, during the British administration, several new spice plantations had been formed on the islands situated near Celebes and the Moluccas; and, in 1821, the cholera morbus swept away multitudes of men in the Dutch East Indies; on Java alone, more than 150,000 died; but the India trade, nevertheless, revived so rapidly, that the subscription opened by the government, in 1824, for the erection of a Dutch society, instead of 8,000,000—the sum requiredproduced more that 73,000,000. ioint-stock company, founded by the king, March 29, 1824 was to last till 1850. Its object is the promotion of national trade, of navigation, of naval architecture, of agriculture and of manufactures, by the extension of commercial relations, and by the opening of new ways of disposing of Dutch productions. In Batavia, it maintains a factory, and in China an agency. In general, it employs only Dutch vessels, under the Dutch flag, commanded by Dutch masters. It is intended to restore the old relations with China, and to promote the commerce with America and the Levant, as well as the fisheries in the Indian seas. The foreign affairs of the Netherlands relate mainly to the colonial interests and the slave trade. By a treaty with Great Britain, of May 4, 1818, the king bound himself to make the slavetrade punishable by law. Every Dutch subject who pursued or participated in that nefarious traffic was threatened with

two years' imprisonment and a fine of 5000 guilders, by the law of November, 1818. Eventually, the treaty of Brussels of December 31, 1822, gave the English cruisers the right of capturing all Dutch vessels loaded with slaves, or only equipped for the purpose of procuring them; but, to put an efficient check to the slave-trade, it was necessary to adopt severer measures, and a subsequent law pronounced sentence of forfeiture against all the vessels concerned in this trade, and threatened the principal participators in it with fines and hard labor, and their accomplices with incarceration; a prohibition was also placed on the importation, hitherto allowed, of slaves into the Dutch colonies from other parts. (e. g. Brazil), where their direct introduction from Africa is still permitted. While the Netherlandish government yielded in these matters to the request of the British, the differences, produced by the commercial rivalship of the two states in the East Indies, were amicably adjusted. The Dutch were reinstated in the possession of their colonies, such as they had it in 1803. At that time they held dominion over the sultan of Palembang and Banca. In 1814, the island of Banca, with full sovereignty, was coded by Britain to the king of the Netherlands, as an indemnification for Cochin; but, during the British rule on Java, the governor there had acknowledged the independence of the sultan in a treaty made in 1812; the British commissioner, in making the transfer, therefore, maintained that this eession to the Netherlands could only take place on condition of acquiescence in the treaties concluded in the meanwhile. But the Dutch government recovered its former supremacy, by deciding, in 1818, the contest of two brothers for the dignity of sultan of Polembang, making the reinstated sultan dependent on itself and abolishing the code of laws introduced by the British. The British governor in Bencoolen (on Sumatra), sir Thomas Stamford Ratiles, immediately despatched troops to Palembang, expelled the Dutch sultan, and established his brother on the throne. The new sultan compelled, in July, 1819, the Dutch garrison at Pulembang to retire to the island of Banca, and repelled several attacks of the Dutch in 1819 and 1820. Not till July 1, 1821, did the Batavian government, by means of a superior force, succeed in restoring the sultan expelled by his brother, with the aid of the British. They conducted the vanquished sultan to Batavia, where he was held under supervision. . But the restored sultan left to the Dutch

government at Batavia the whole civil administration of Palembang (judiciary, police and finances), reserving for himself merely his annual income, his honors and But the chief matter of disdignities. pute was finally settled at London, by the treaty of March 17, 1824. By this treaty, the king of the Netherlands coded to Great Britain all his possessions and rights on the main-land of India, especially the city and fortress of Malacca, with its appurtenances; he promised never to make settlements in future on the peninsula of Malacca, nor to conclude any treaty with the native princes; at the same time, he renounced all intention to prevent the occupation of thé island ef Sincapore (q. v.) on the part of the British. On the other hand, the king of Great Britain ceded to the Netherlands the factory and fortress of Marlborough, with all the British possessions (presidency of Bencoolen) on the island of Sumatra. He promised never to make any settlement on that island, nor enter into any treaty with the native princes He, moreover, renounced all intention of preventing the occupation of the island of Billeton and its appurtenances on the part of the Dutch, and he promised never to establish British settlements on the Carimon islands, or on the islands of Battum, Bintang, Lingin, or any other south of the straits of Sincapore. Neither party was to resign the above-mentioned territories to any other power, and, in case one party should abandon these territories, the other should immediately have the right to take possession of them. The mutual surrender took place March 1, 1825. By this trenty, the Netherlands have remained in exclusive possession of the Sunda islands, and of the most valuable part of the Moluccas, as well as of the spice trade with those parts; and, after a short but bloody war, in 1824, they reduced to subjection the prince of Tanete, on the island of Celebes, who attempted to throw off his allegiance. In Europe, the state of the Netherlands maintained its dignity. When the dey of Algiers, disregarding the trenty of 1816, renewed, in 1824, under menaco of war, the old demands for presents, the commander of the Dutch fleet in the Mediterranean, admiral Wolterbeck, re-plied, that the Netherlandish government had no intention of yielding to the claims of the dcy; the admiral, at the same time, demanded, within twenty-four hours, an explicit declaration, whether he should consider himself at war with Algiers. The dey, hereupon (in October), desisted wholly from his demands, and signed

anew the peace of 1816. With respect to to official accounts of the year 1820, the the king of Spain until his arrival in Seville. The same is the case with the The ambassadors of Russia, England and France, when they left Constantinople, in December, 1827, placed the subjects of their powers under the protection of the Dutch ambassador. Natives of France, Spain, and Italy, obliged to leave their country on account of having shared in its internal disturbances, found an asvlum in the Netherlands. (For the history of the Netherlands subsequent to the Belgian revolution, we must refer the reader to the appendix to the last volume of this work, as the state of the country at present is too unsettled to enable us to give any satisfactory account of it.)

Geography and Statistics of the Netherlands.—The kingdom of the Netherlands consisted, before the late revolution of the seventeen provinces united under Charles V, but not altogether with the same boundaries. The county of Zütphen is united with Guelders, the lordship of Mechlin with the margravate of Antwerp; and, by the peace of the Pyrenees, in 1659, the county of Artois was ceded to France. On the other hand, Brabant and Flanders, oh account of their extent, have been divided into North and South Brabant, and East and West Flanders. The district of Dreuthe, formerly partaining to Groningen, has become a distinct province. In its internal administration, the province of Holland is divided into two parts, South and North; but, in relation to the general government, it forms only one province. In Belgium, the French departmental boundaries have been made the foundation of the provincial divisions. The provinces of the late kingdom of the Netherlands are the following: 1. North Brabant (formerly Brabant); 2. South Brabam (formerly department of the Dyle); 3. Limburg (department of the Lower Meuse, with a part of the department of the Roer); 4. Guelderland; 5. Liege (department of the Ourthe); 6. East Flanders (department of the Scheldt); 7. West Floriders (department of the Lys); 8. Haimult (department of Jemappes); 9. Holland; 10. Zeeland; 11. Namur (department of the Sambre and Meuse, with the exception of Luxemburg); 12. Antwerp (department of the two Nethes); 13. Utrecht; 14. Friesland; 15. Overyssel;

the internal affairs of Italy, Spain and kingdom (including Luxemburg) contain-Greece, the Netherlands have observed red 25,375 square miles, with a population, the strictest neutrality, so that, e. g. in in 1827, of 6,050,566 inhabitants, or 239 to 1823, the Dutch minister did not leave the square mile. The kingdom (fineluding Luxeinburg) was bounded on the south and south-west by France, on the cast by. Germany (the Prussian-Rhenish provinces and the kingdom of Hanover, and on the west and north by the North sea, It extended from 49° 30' to 53° 45' N. lat., and from 2° 30' to 7° 20' E. lon. Among the inhabitants were upwards of 1.690,000 Dutch, 145,000 Frieslanders, 300,000 Germans, 3,360,500 Walloons, or Belgians, . and 80,000 Jews. Among the Christians. about 3,414,300 were Catholics, 1,650,000 Dutch Reformed, 320,000 Lutherans, 115,000 Mennonites, 38,000 Remonstrants, and other denominations. The face of the country is, for the most part, very low in the north-west, where the Rhine, the Meuse and the Scheldt cappty into the The Rhine, entering the Low Countries formerly at Schenkenschans, at present by the canal of Pannerden, separates into two branches,-the Southern, the Waal (known as early as Casar's times under the name of Vahalis), and the Northern (which retains the name of the Rhine). From the latter, a canal, constructed by the Roman general Drusus, leads to the old Yssel, which 'proceeds from Munster, and, forming a junction with this river, under the general name of the Yssel, cuters the Zuyder-Zee, between Zütphen, Overyssel and the Veluwe... The Rhine, flowing westward, the other side of Arnheim, assumes, at Wyk te-Duurstede, the name of Leck. A small stream, which is connected with the Lock : by means of a sluice, there receives the name of the Crooked Rhine, and, between Utrecht and Leyden, the name of the This was formerly the principal mouth, emptying into the sea at Catwyk; but, after the fearful inundation in 260, which probably threw'tip the greater part, of the downs, had filled this arm with sand, the Lech received the great volume of water, and the Old Rhine, as it was called; became an inland canal, without any considerable current. To drain the. circle of Rhynland of its superfluous was ters, it was contemplated, more than two centuries ago, to restore the old mouth of the Rhine at Catwyk; but this difficult & undertaking was first commenced in 1804. and successfully finished in three years. North of the Old Rhine, an arm of this .. rive. flows into the Zuxder-Zee, under the 16. Groningen; 17. Dreuthe. According name of the Vecht. After its junction

with an arm of the Waal, this Mouse has and east coust of this gulf, nor those of the mane of the Merre, which receives Groningen, Friesland, Rectabil and South the other arm of the Weal and the Leck, Holland, with the river likes. In 1816, and after branching out into many outlets. and taking various names, flows into the North sea at Briel, where it has a considerable breadth. After having, for almost two centuries, been closed to navigation, by trenty, the Scheldt, at Antwerp, has borne again, since 1795, on its broad, navigable waters the largest vessels of all nutions. At Sandyliet, where its breadth is 6000 yards, it divides into two arms (the East and West Scheldt), which surround Zeeland, and become almost imperceptibly confounded with the North sea. The Ems and Moscile also touch a small part of the country, which is, morcover, intersected by numerous secondary rivers, mostly pavigated by boats drawn by horses (trebschupts), and into which the contiguous Polder (low tracts of country diked in and rendered inhebitable by draining) empty their superfluous water by means of hydraulic machinery. In Belgium, the canal from Mons to Coude was opened Nov. 27, 1814. It connects Mons with the Scheldt, and is of importanca for the export trade of the Nether-The North canal is to unite the Scholdt with the Rhine, and extend from Antwerp, through Venloo and Neuss. The part which is finished connects the Mening and Scheldt. In 1825, the arm of the sea called the Arcl Gat was closed by a dam. In 1828, a navigable canal was in progress from the Meuse at Liege to the Moselle at Wasserbillig, which it was intended to complete in six years. By the influx of rivers, especially of the Rhine and Meuse, Guelderland and Holland are exposed to almost annual inundations. which, breaking through or flowing over the dams of the rivers, or dikes, cover whole tracts of country with water and sand, and not unfrequently render them unfruitful for a number of years. Still more dangerous to the seuboard provinces -Holland, Zeetand, Friesland and Groningen—is the North sea, which is higher than the level of the land: "This danger is." in part diminished by a series of downs ly Flanders (which also produces flux of (Dunen), 90 to 200 feet high, extending rrom Dunkirk, in French Flanders, to the ders and Brabant, hemp; Zeeland, Flan-Texel. The rest of the sea-coast it is ders and Holland, madder; Utrecht and necessary to restact by means activities in ders and Holland, madder; from Dunkirk, in French Flanders, to the necessary to protect by means of high and necessary to protect by means of high and Gueineriand, and some districts appearing the protect by means of which in regain along the west coast of the Zuy-in abundance almost every where through der Zee and the north coast of the Y, from out the kingdom, and especially in the well-wisingerward to Beverwyk, cost, in 55 watered sections; and garden seeds and years (1732—1788) 18.571,000 guilders. In roots (especially hyacinth and tulip roots) this are not included the dikes of the touth.

5,000,000 guilders were expended on hy-draulic works in those countries. The-lowest countries are Groningen, Friedland, Holland, Zecland, and West Flanders. From France, through Hainault, Namur, and Luxemburg, extends the forest of Ardennes. Limburg also contains some hills, and Brabant, with East Planders, several elevated forest regions. The middle of the Low Countries is a continuation of the great sandy heaths, extending from the Baltic to the Scheldt, through Bran-denburg, Lunenberg and Westphalia, in terrupted by fertile intervals, and then re-suming its course through North Brabant. To the south, the Peel and Kempen land, consisting of heath, sand and marsh, reaches far into the former bishopric of Liege. The most fruitful regions in grain are Flanders, South Brabant, Zecland and Guelderland; in meadows and pasturage, Holland, Friesland and Groningen. In the more elevated regions in the southeast, and in Brubant, Liege, East Flanders, Gurlderland, Utrecht, Overyssel and Groningen, the climate is very salubrious. On the contrary, in West Flanders, Zeeland, Holland and Friesland, the instability of the weather, the fogs, the stagnant pools, the bad quality of the water, and the continual use of fish, engender perpetual fevers. Prior to 1788, the United Netherlands never supplied more than one third of their consumption in grain; but, after the decline of commerce compelled the inhabitants to pay more attention to agriculture, which has, besides, been very much promoted by two societies for the improvement of husbandry, the deficiency became comparatively small. Since the union of Belgium, which, in South Brabant, Flanders and Hainault, produces more than a sufficient supply of excellent. wheat, large quantities have been exported to England and Spain. Holland and Overyseel produce rye; Groningen, oats; the northern provinces and Brabant, buck-' wheat; the southern provinces, particularsuperior quality), rape-seed; Holland, Flau-Guelderland, and some districts of Belgi-

to England, Spain, France, Germany, and thing that pertains to the wants and conwas very destitute of woods, which has been but poorly supplied by the plantation of the soft species, aspecially those from America. Among the productions of the animal kingdom, the chief are the Dutch catile. In 1803, there were computed to be more than 900,000 head of black cattle, . and 700,000 acres of pasturage in the Batavian republic. Considerable quantities of cattle are also raised in Limburg, and the eastern part of Liege. Friesland, in particular, raises horses which are rarely equalled in size, strongth and endurance. Numerous flocks of sheep are bred in the sandy districts of Brahant and Holland, especially on the island of Texel. The. breeding of swine is much pursued, and pork is an important article of subsistence for the lower classes. In the sandy plains near the sea, there are innumerable wild rabbits: other four-footed game is scarce in the northern provinces, but abundant in the wooded provinces of the south,-Brabant, Hamault, Namur and Luxemburg. Wild and tame fowls, especially waterfowl, exist in great abundance. Bees are raised in considerable quantities on the " heaths in Guelderland and Utrecht. . Drenthe are found snakes, but of a harmless kind. The fisheries are one of the branches of subsistence in the Netherlands; and, in 1801, it was calculated that, notwithstanding the war with England. 20,000 families derived subsistence from them in the United Netherlands. whale and herring fishery seems to be recovering from its decline. The 1500 yessels called herring busses comployed in 1601 in the herring fishery, had diminished, in 1795-1807, to 30, but, in 1818, had increased again to 157. Oysters and muscles, used for lime, as well as all kinds of fresh and salt-water fish, exist in great sabundance on the coast, and in the numerous rivers and inland waters. Of · minerals the northern provinces contain, for the most part, nothing but peat, which is obtained in large quantities in Holland and Friesland, together with argillaceous carth and pipe elay. In the southern provinces, Namur, Hainault, Liege and : Limburg, are found iron, lead and copper, calamine, sulphar, fossil coal, lime, markle, and mineral waters. The Netherlandish manufactures are among the most important in Europe, and furnish almost every

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the other parts of the world. Wine is veniences of life. The Holland, and especially the Leyden, woollen manufactions in Luxemburg, not far from the pecially the Leyden, woollen manufactions in Luxemburg, Heinault, Liege those of Tilborg, in Brabant, have, in and Brabant. The republic of Holland, deed, very much declined. On the other was very destitute of woods, which has been destitute of woods, which has been destituted by the allowants in Liege of lines in Fluidess of Verviers, in Liege of linen, in Flanders of lace, gold and silver stuffs, and hats, in Brabant of cambries, in Hainault the famous linen bleaching at Haarlen, and the Belgic* and Dutch dyeing establishments are still prosperous; and the Brabant lace manufactories alone put many millions of guilders in circulation. The paper, wool and saw-mills of North Holland, the Holland smoking tobacco, and smuff manufactories, and the brandy distilleries in the provinces of Holland, Brabant and Liege, which are at present as prosperous as they ever were, together with the tobacco-, sipe manufactories at Gonda, are deserving of mention; also the breweries in Brabant and Upper Yssel. Dutch confinerce began to flourish in the fourteenth century, at Bruges, in Flauders, but, at the end of the fifteenth century, left this city, in a great measure, for Antwerp, which became the first commercial place in the world. But the devastations of the war of independence with Spain, and the capture of the city, in 1585, drove the richest merchants to the Dutch Netherlands, and especially to Amsterdam, whose commerce, at the end of the sixteenth and the beginning of the seventeenth century, rose to an unparalleled height, from which it declined somewhat about the glose of the eighteenth centu , till the revolution of 1795 inflicted its death blow, and London, the rival of Amsterdam; rose to be queen of the ocean, on the rains of Dutch commerce. Since 1813, the commerce of the Netherlands'has' been much angmented, but it is yet very far from its former extent. In 1418, 3800 vessels sailed from their ports. In 1826, 1606 vessels, exclusive of coasters, entered the harbor of Amsterdam. In 1790, of 9734 vessels which passed the sound, 2009 were Duich, and 3788 English; in 1796, of 12,113 vessels which pursuedthat route, 4436 were English, and one Dutch; in 1815, of 8815 vessels, 2398 were English, and 450 Dutch. The commerce of Belgium was destroyed by the decline of Antwerp, and still more by the closing of the Scheldt; and these provinces flourished only by the fertility of their soil, and by the increase of manufactures in the last years of the Austrian government. The opening of the Scheldt, stipulated in the treaty of peace of 1795, and the exertions The same of the contract of the same of the contract of the

of the French government to promote the . commerce of Belgium at the expense of · that of Holland, were of little avail, on account of the continued war with England. The treaties of Paris and Vienna, in 1814 and 1815, placed the commercial rights of the Northern and Southern Netherlands on an equal footing. At the present day, the Dutch are the agents of Great Britain for a great part of Germany and Switzerland, in the commerce on the Rhine. They also supply England (mainly by way of Ronerdam) with butter, cheese, flax, grain and midder, when their importation is permitted. In the trade with France, chiefly through Antwerp, the balance has - been, on an average, about 12,000,000 guilders against the Netherlands; but the trade with Spain, Portugal, Italy and the Levant, is in their favor. The trade with the U. Stafes of North America is passive on the part of the Netherlands. **⊁**he gor and other commodities exported to these states cannot balance the tobacco, hides, &c., imported from America. Dutch trade to the East and West India colonies has undergone great changes, partly by the loss of Berbice, Demarara and Essequibo (though, as far as concerns the trade with these colonies, the British government has given the Dutch equal rights with its own citizens), partly by the decline of the East India company, and by the freedom of trade to the East Indies, bestowed on all the subjects of the kingdom (with the exception of the Moluccas - and of the trade to Japan, reserved to the government of the Dutch East Indies). The liberal administration of Java has occasioned a great increase in the quantity of its products, of which North America is the chief recipient. The former lacrative contraband trade with Spanish America, by way of Curação, has been annihi-lated by the independence of that country; but, on the other hand, new resources are a opened to Dutch trade in Brazil, the Havaon and Hayti. The inland trade of the Netherlands, by the interchange of various productions between the northern and southern provinces, has been highly important. After Amsterdam, the principal: the first. commercial places are Antworp, Rotter- die of Holland amounted to 573,153,530 dam, Bruges, Brussels, Ghent, Ostend and guilders; the deferred debit o 1,719,460,591; Middleburg; the most important ports, the whole to 2,222,614,121 guilders. The Antworp, Ostend, Briel, Delftshaven, Austrian debt, incurred by Belgium, by an Dortrecht, Enklausen, Medemblick and agreement of Oct. 11, 1815, was fixed at . Ziericksee. There are commercial tribunals at Amsterdam, Groningen, Middleburg, Rotterdam and Schiedam, April 1, the incorporation of Belgium, in the first

Netherlands, was established for twentylive years. The capital consisted of 5,000,000 guilders, divided into 5000 shares. Its principal lusiness was the discounting of commercial paper. In 1815, a commercial company was chartered at Amsterdam for twenty-five years, with the exclusive right of prosecuting the tea trade to China. The finances of the United Netherlands during the thirty-two . yours peace of 1748 -80 were in so prosperous a condition that the public stocks, bearing interest of two and a half per cent. were at an advance of ten per cent. abova the nominal value. The war with Eng. land, the internal troubles of 1786, the war with France, and its pernicious consequences, produced an annual deficit of full 8,000,000 guilders, besides a new debt of 22,000,000, which, after the conquest of Holland, was increased to a feerful extent; and the interest on the national debt, from . 1795 to 1804, increased from 18 to 31, and, subsequently, to 42,000,000; so that, in 1705-1805, it was necessary, in order to cover the yearly deficit, to raise forty-one. per cent, on the capital, and fifty-three per cent, on the incomes of the owners of real estate. The consolidation, in 1798, of the provincial debts, which had been previously separated, had but a slight influence in improving the condition of the finances. More beneficial was the system of taxation introduced in 1805, by the pensionary Schimmelpennink; but the expenditures of king Louis, who, in 1807--9, borrowed 9,000,000 to cover the deficit, in conjunction with the invasion of the English, in 1809, reduced the country to so lamentable a state, that, on its incorporation with the French empire, in 1810, Napoleon, by a reduction of the national debt to one third, virtually declared it bankrupt. One third of the debt only was declared to bear interest; but the other two thirds were deferred (uitgestelde, not bearing interest). The actual (Werkelijke) debt bears an interest of two and a half per cent. from Jan. 1, 1815: 4,000,000 of the latter are to be annually liquidated, and their place supplied by as many of The debt of the former repub-34,466,679 guilders. In consequence of such a heavy debt, it was necessary, before 1804, besides the old bank of Amsterdam, years of the regul sovereignty (1814), when a bank of the United Provinces of the trade had hardly begun to revive; to im-

surface five sixteenths is covered with in May, 1814, the Dutch navy contained consequently one half only is productive of any profit. If, after the incorporation of Belgium, we rate the direct and indirect taxes at 56,200,000 guilders, it follows that each individual in the kingdom of the Netherlands paid eleven guilders, four stivers; according to others, the tax for the year 1819 amounted to sixteen guilders a head. By the budget of 1818, the expenses of the kir gdom, which were afterwards, however, diminished, amounted to 74,000,000 guilders. Of this sum, 2,600,000 guilders were appropriated for the royal household, 1,170,000 for the high colleges, 320,000 for the department of secretary of state, 853,000 for the de-partment of foreign affairs, 3,700,000 for the judiciary department, 2,000,000 for the home department, 325,000 for the department of Protestant worship, and 1.875.000 for that of the Catholic, 1,200,000 for the department of education, the arts and sciences, 25,000,000 for the ministry of finances, 5,500,000 for the ministry of the marine, 22,000,000 for the ministry of war, 4,700,000 for hydraulic works (Waterstant), and 1,057,000 for contingencies. The revenue was derived from direct taxes on land, polls, furniture, doors, windows and patents; and indirect, on salt, sonp, wine, domestic and foreign liquors, beer, vinegar, peat, coal, domestic grain, and from the fees for weighing and meas-· uring; and, moreover, from register's stamp and mortgage fees, from the taxes on inheritances, and on wrought gold and silver. The land tax was levied according to an assessment made in 1805 .- The navy, which, in 1652-72, consisted of "66-150 vessels of war of all kinds, was reduced, in 1776, to 25 ships of the line, 23 frigates, and 20 smaller vessels. In the war of 1781 with England, the num-· ber was somewhat increased, so that, in-1792, the many again consisted of 66 ships of the line and frigates, and 46 smaller But, by the resignation of a. great number of the most able navy offiat craying 1795, by the innmense losses in third places, single fortifications, and expending bely and at Kamperduin, and by tended lines of defence. Respecting the prove approved to the first to the English. prove surrender of the fleet to the English, the surrender of them, a containing surrender, 1799, the navy was again vention was concluded in October, 1815, between England and the Dutch governantific dominator, pretty large squadrous unent. England appropriated for the pur-

pose a tax of 63,000,000 on a population of Paris, of May 31, 1814, the whole of of 1,200,000 men, some of whom were in the first and two thirds of the last were abject poverty, and on a country of whose fransferred to the Netherlands; so that, water, three sixteenths is composed of in all 30 vessels of war. In the year. heaths, sands, wastes and marshes, and 1827, the navy contained 76 sail, with 2206 gure, among which were 14 ships of the line, 22 frigates, 8 corvettes, and 6 brigs. The navy list was composed of 270 officers, a lieutenant-admiral, 7 vice. and 8 rear admirals (in Dutch, Schoul by nucht), a commander with the broad pennant, 28 capmins, 48 lieutenant-captains, 95 first lieutenants, and 90 second neutenants. Both in the higher and the lower ranks, there are many excellent officers, distinguished for their skill in navigation and naval tartics.—The army, exclusive of the national militia of 25,500 men, which, by royal summons, could be at any time increased to 80-100,000 men. amounted, with the troops in the colonies, to 43,000 men, in 68 battalions of infantry, without the depots, one regiment and 11 battalions for the East and West Indies, 4 regiments of Swiss, 10 garri-on companies, a regiment of Nassau light infantry, 14 battalions of artillery; and a corps of light artiflery, a battalion of pontoniers, miners and sappers, the corps of engineers, 3 regiments of carabineers, 2 regiments of light dragoons, 3 regiments of hussars, a regiment of carabineer militia, and the marichaussie. On the army list, the duke of Wellington, who bears, in the Netherlands, the title of prince of Waterloo, stood as field-marshal, the crown-prince : us general of the cavalry, prince Frederic. as master-general of the ordnance and chief of the artillery, Christian, landgrave of Hesse-Darmstadt, as general of infantry, 28 lieutenant-generals, 54 major-generals, and 21 aids of the king, and the two princes. The kingdom was divided into 6 general commands. The military contingent of the southern provinces was 67 men to $40 \cdot$ furnished by the northern; and the relative number of their forces in the army was in the proportion of 327 to 200. The number of superior officers from the Belgic provinces was much less than that from the Dutch. The officers and sol-diers are well paid. In no country is there proportionarely so large a number of forthird places, single fortifications, and exmanufa stationed in the Nicuwe Diep and pose her share of the French confingent tant in a Antwerp, of which, by the treaty. By the trents of this convention, in the

Ardennes, and in Luxemburg, Arlon, his eighteenth year. Rochefort and Dinant, were to be placed in a proper state of defence; Numer and Charleroi, changed into fortresses of the first rank, were intended, with Philippeville and Marienburg, to defend the Meuse and Sambre; and Beaumont, Chimay, Mons, Ath, Doornick, Cortryk, Menin, Ypres, Furnes and Ostend, were to complete this, line of defence. Between 1815 and the end of 1625, these works cost 96,000,000 francs, 60,000,000 francs of which were from the French contingent, than forty. The second chamber conand £2,000,000 sterling from Great Brit-One hundred millions were still For these wanted to complete them. works, 2000 cannons and 6000 artiflerists were necessary .-- The foreign possessions of the Netherlands are, 1. in Asia, the island of Java (partly under the direct government of native princes, tributary to the Netherlands); the Molucca islands, standing under the general government at Batavia, and divided into the three governnients of Ambovna, Banda and Ternate (the value of which has been much diminished since the transplantation of the initing and clove trees by the English, and the loss caused thereby of the Dutch monopoly); Macassar, on Celebes, Palembang, on Sumatra. New factories have been established at Borneo, on account of the gold mines. The colonies in Asia amount to 85,500 square miles, with 6.5d1,700 inhabitants, among whom are 52,700 whites, and 8800 slaves. 2. In Africa, 100 square miles, with 15,000 inhalf tauts, among whom are 14,700 slaves: in lo fort sees and commercial sentements on the coast of Guineá, among which are St George del Mina and Nassaut 3. In America, 10,200 square miles, 90,000 inhabitants, among whom are 5800 whites, and 77,200 slaves,—the colony of Surinam (g, v.), and the West India islands of Curacno, St. Eustatia and St. Martin. All the colonies together form 958,000 square , miles, with 6,000,700 inhabitants.- By the , Grandwet of Aug. 24, 1815, the kingdom. was declared a limited constitutional monarchy, the crown hereditary in the -house of Orange-Nassau. The king can. wear, po foreign crown. He enjoyed an annual income of 2,400,000 Dutch guilders from the state treasury. His residences were of the Hague and at Brussels. The crown-prince bears the title of prints of Orange, and, after the com-pletion of his eighteenth year, enjoyed an but whatever relates to peace and war, unnual income of 100,000 guilders, which must be communicated to the states gen-

With respect to the guardianship of a king under age, if no regulation has been made on the subject by his predecessor, and with respect to the regency, arrangements are made by the states-general; and, till they do so, the council of state exercises the supreme power. The states-general consist of two chambers. The members of the first, who are appointed for life by the king, and must be at least forty years old, could not be in number more than sixty, nor less sisted of 110 members, chosen by the provincial estates, which are composed of the three estates of the nobility, enizens, and landed interest. The period of office of one third expires every year, but they can be immediately reclected. For eligibility, besides an age of at least thirty years, it is requisite that the person to be chosen should be settled in the province which appoints him, and be related to no mentber of the assembly nearer than in the third degree. The ministers of state have a seat in both chambers, either as ministers (in which case, they have only a right to advise, or as members. The king sends his propositions to the second chamber, which transmits these for ratification to the first. The states-general have the right of making proposals to the king, in which case the opening of the motion belongs to the second chamber. If a pro-posed law is rejected, the plan of it is never published, but withdrawn. The never published, but withdrawn. king exercises all acts of sovereignty, ofter the matters have been submitted to the deliberation of the council of state, which : consists of at most twenty-four ordinary; members, who, as far as practicable, must be taken from all the provinces. respect to the members extraordinary, every thing is left at the option of the king. The king decides, and amounces his decision to the minister of state. Heappoints and dismisses the members of the state council and the ministers. To him exclusively belongs the management of the colonies and foreign possessions. He declares war, concludes peace, ratifies treaties; but, without the consent of the states-general, he cannot, in time of peace, dispose of or exchange any integral parts of the kingdom and colo-nies. The king appoints and recalls and bassadors and consuls, commands the fleet. was doubled after his marriage. The eral. He has the supreme management king becomes of age on the coinpletion of the public finances, and has the right

age. He can grant patents of nobility, and found orders of knighthood. Withont his permission, no subject can receive any order, title or dignity from any foreign prince. In him is vested the pardon-ing power. In his name alone is justice administered. Every arrest made by the police must be immediately reported to the local judge, and the arrested person be brought before him within three days. All 'civil sentences must contain the grounds of decision. Each province has a court of justice, a criminal and civil court. To each individual is secured full freedom of religious opinion, and all religious denominations enjoy equal protection, equal civil and political privileges, and have could claims to all dignities, offices and employments. All kinds of divine worship are allowed which do notinterfere with the public order and security. To the teachers of all religious deneminations, their former provision is secured, and to those who have no sufficient income, it may be allowed or increased from the public treasury. The king takes care that no subject shall be interrupted in the free exercise of divine worship, secared to him by the constitution, but, at the same time, that all denominations shall keep within the limits of obedience to the laws of the state. No taxes can be imposed for the benefit of the treasury, except by law, and, in assessing them, no privileges are allowed. Foreign troops can be taken into service only after congulation between the king and the statesgeneral. Of the national militia, the fash part is disbanded in time of peace. It can in no case be sent to the colonies, and , not beyond the boundaries of the kingdom, without the consent of the statesgeneral, and even then only in case of emergency, or when, in changes of garrisons, the shortest route passes over a Soreign territory. All expenditures for the troops of the kingdom are paid from the public treasury. The quartering and · maintaining the soldiers, the transports and supplies, of whatever kind they may be, for the armies and fortresses, cannot be imposed on one or more inhabitants or communities. If this is done, in unforcseen cases, the government makes it a rule to indemnify them. The produce of the toll on roads, bridges and locks is exclusively appropriated to the repairing and improvement of roads, bridges, canals and mavigable rivers. Every one is free to make known his sentiments and opinions, instruction, see the subsequent divisions of

of cansing coins to be struck with his im- for the diffusion of knowledge and the proniction of intelligence; but every one is always responsible to society or individuals, as far as their right may have been violated; for whatever he writes, prints, publishes or disseminates. Respecting alterations of, and additions to, the constitution, the second chamber can never deliberate except when two thirds of the members are present, and can adopt resolutions on these subjects only by a majority of three fourths of those present. During a regency, no alterations can be made in the constitution or order of succession. All the alterations or additions which are resolved upon by the king and states-general, in regard to the constitution, must be solemnly proclaimed, and annexed to the idstrument. The title of the mountch runs,-king of the Netherlands. prince of Orange-Nassau, grund-duke of Luxemburg.

Administration. In the king is vested' the whole executive power, and on him depends the management of all state matters. He is assisted by a ministry of state, consisting of the first president of the first court of justice, or of the supreme council of the Netherlands, as minister of justice, of the vice-president of the council of state (the king, by the constitution, being regarded as the president of it), of the heads of the various departments of war, of state, of trade, and of colonial affairs, &c. These officers form, together, the privycabinet of the monarch. The second highest authority, to whose discussion alllaws and regulations must be submitted, is the council of state, whose qualifications are defined in the constitution. A separate commission of three or four of its Catholic members superintended the worship and privileges of the Belgic church. In the late Belgie provinces, nearly the whole population consists of Catholics. In the Dutch provinces, the Calvinists constitute four sevenths, the Catholics two sevenths, of the population: the remainderconsists of Lutheraus, Remoustrants, Jannepists, Anabaptists, Greeks, Armenians, Portuguese and (so called) High German Jews, which last enjoy, in the Netherhards, the rights of citizens. The ecclosinstical affairs of the Calvinists are regulated by councils, whose representatives form classes (so called), of which a certain number constitutes the synod of each province. The French, Walloon, English and Scotch huye their distinct regulations. (Respecting the institutions of by means of the press, as a suitable organ this article, Language, and Lalerature, and

Schools.) The code Napoleon has sub-moment, Walloon is spoken in Hainault, sisted in the Netherlands, but a commission has been occupied in claborating a penal code, to be followed by a civil. The question, whether there shall be juries in criminal trials, and whether the proceedings shall be public, divided the Belgians and Dutch; the former maintaining the affirmative, the latter the negative.-For a knowledge of the history and statistics of this country, the reader may consult Van der Wynekt's Histoire des Troubles des Pays-Bas (2d ed.), the best work on the period of the French revolution; it has been used by J. J. de Smet, in his His-· toire de la Belgique (2d ed., Ghent, 1822). Sec, also, professor Frederic, baron of Reitfenberg's Resume de l'Histoire des Pays-Bas (Brussels, 1827, 2 vols.,: the History of the Revolt of the Netherlands, by Schiller (which has been translated into French by the margrave de Chateaugiron (Paris, 1827, 2 vols.); J. J. de Cloct's Geographic historique, physique et statistique du Roy, des Pays-Bas et de ses Colonies (Brussels, 1892, 2 vols); the Rinceaire du Roy. des Pays-Bas (Amsterdam, 1827, 2 vols.); and the Commercial Code of the

Kingdom of the Attherlands.

Language, Literature and Poetry of the Netherlands. The language spoken in the northern part of the late kingdom of the . Netherlands, and generally called Dutch, is derived from the Old Saxon, from which have also sprung the Auglo-Saxon tof which again the English language is a descendant), the Low German (Niedersuch isch, or Plattdeutsch), and the Flemish. The Flemish language, in its chief features and radical words, coincides with the Dutch, though it borrows many words from the French. It differs, however, from the Dutch, by a more must promueciation, while that of the Dutch is more guural. There is, however, in the Neth-, erlands, a dialect totally different from the Dutch; that is, the Walloon, a corruption of the French. In all Flanders, Northern Brabant, and a part of Southern Brabant, . the Flerish is the common language. The line of division is in Brussels, where the people of the lower city speak Flemish, in the upper city; Walloon. To the south of Brussels, in the (so called) Waltoon Brabant, in Hainault, Namur, Liege, and part of Lünburg, the Walloon continues to be the popular language. It is worthy of remark, that, even in that part Scaliner, Lipsius, Damel and Nicolas Hein-of Flunders which has been under the sins, Gronovius, Van Bahrle, Spanheim, French scentre for a long series of years, and others, in ancient literature; Expenius.

Brabant, and particularly in Liege, though so long united to Germany. The dialects of the Low German, spoken in the Nethorlands, may be divided into five: L the . proper Dutch, which, as early as towards the end of the fifteenth century, was elevated to a literary language in the northern provinces; 2. the (so called) Peasant- : Frisian (once the literary language of Gysbert Japix), an idiom which is gradually disappearing; 3. the Gelders dia-lect, or the (so called) Lower Rhenish; 4. the Groningen dialect, to which also belongs the Upper Yssel dialect; and, 5. the Flemish, which has remained the literary language in the southern provinces, though much poorer than the Dutch, and overloaded with all the mongrel words, of .. which Coornhert, Spiegel and Hoost have puritied the Dutch. As to Belgium, the French sovereignty there of nearly twenty years greatly narrowed the bounds of the Tentonic languages, particularly in the cities, and especially in Brobaut. commencement of the independent developenient of the Dutch language also marks the beginning of the Dutch litera-As early as towards the end of the fifteenth century, the language was already fixed by numerous translations of the Bible, controversial writings, poems and popular works. Gansfort and Agricola, in Groningen, were among the first who distinguished themselves as divines and senolars. Erasmus, of Rotterdam, made far greater progress. A still greater genius, Hugo Grotius, in the begiming of the sevente ath century, when science, repressed during the long struggle for liberty, began again to revive, enibraced, at the same time, philology and antiquities, poetry, history, philosophy, theology, and jurisprudence in all its branches. The northern provinces were long destitute of a university: that of Louvain, in Brahant, served for all the Low Countries, until king Philip established auether at Donai for his Walloon subjects, which, however, after it came under French. dominion, declined rapidly. But the university of Leyden, founded in 1575, by .. prince William I, in order to reward the patriotism of her citizens, displayed in a valiant resistance against the Spaniards. soon exerted a beneficial influence over the whole united Netherlands. Men like the Flemish, nevertheless, is the popular and Golius in Atabic; Arminius, Drusius, language as far as Donkirk, while to this Coccejus, and others, in divinity; the two · 产品的 医二氏

Smellius in mathematics,-made this uni- ett: their native popular poetry is fine, versity famous over all Europe. Univer- and other poetical productions are distasities were also founded at Francker in 1585, at Groningen in 1614, Utrecht in 1686, and Harderwyk in 1617, and their competition with the university of Levden was very advantageous to science. Towards the end of the seventeenth century, Huygens, Leeuwenhoek, Zwammerdam, Hartsoeker, and others, distinguishod themselves in natural history and astrenone. New light was shed on the Oriental, Greek and Dutch languages; also on medicine, after the peace of Urrecht, by men like Alb. Schültens, Ti-berius Hemsterhuis, Lambert Ten Kato and Hermann Boerhaave; and, under a series of distinguished men who succoded them, these branches flourished more than ever, particularly at Leyden, which, during the whole of the eighteenth century, was indebted for many distinguished professors to the university of Ctrecht also had its Wes-: Francker. seling, Duker, Drakenborch and Saxe. Among the jurisconsults, Mathari, Huber, Noot and Voet are distinguished. The cultivation of the Dutch language was especially promoted by grammarians, including, besides the above-mentioned Lambert Ten Kate, Sewels, Zeydebar, Kramer and Van Moeroeek. Dictionaries were produced by Kramer, Sewels, Halma, Moerbeck, Weidenbach and Weiland. In philology, history, geography, mathe-, maties, natural philosophy and medicine, the Dutch have distinguished themselves in the highest degree by talenc, crudition and diligence, and their contributions to civil and public law are very valuable. The Dutch have always had men of the first distinction in ancient classical literature. Works of this kind, however, cannot be called a national literature, particularly if they are written, as was mostly the case with these, in a foreign language, or by marives of foreign countries. Among the men who shone at Leyden, as stars of the first magnitude, Scaliger and Luzac were horn in France, Albimus in Dessau, Vossins in the Palatinate, Gronovius (properly Gronhof) in Hamburg; Ruhnken was a Porneranian, Vorsions a native of Cologhe, and the great philologist Wytten-bach was a Swiss. The national literature, properly speaking, of the Dutch, is deficient in originality, because mostly formed on the model of the Germany English and French; yet they have produced works which need not shun a comparison with those of other countries. In the

guished by power, fullness and beauty of description and language. From 1640 to 1750, their national theatre was particularly developed, and was carried to a high degree of perfection by several posts of talent. Until 1750, the Dutch theatre was much richer in original pieces that the German; and the dramas of Van der Gon. Rotgans, Dayf, Lescalje, Bonagie and De Marre were incomparably more beautiful than what the period of Gousehed produced in Germany. Yet many of those Dutch plays are mere imitations of the Among the poers who distinmished themselves are Jan van der Doos Janus Douza of Norwik, died 1604), who is emir ent as a philologist, historian, and Latin poet, here, however, chiefly mentioned as one of the first who attempted poetry in the vernacular tongue, in which Qamel Heinse of Ghent (who died 1655) followed him with great success. Peter Cornelius van Hoofi of Amsterdam (who died 1647), esteemed for his histories of king Henry IV. and Belgium, and an excellent translation of Tacitus, was too artificial in his tragedies and other poems, and his language is overloaded; but, in all the poems of James Cats (q. v., who died in 1660), there breathes a true spirit of poetry, apeculiar serenity, wisdom, and picty. The Dutch call him their Ocid. The poems of Jan Antonides van der Goes (who died in 1687, have the reputation of, correctness and elegance. Juost van der Vondel of Cologne (who died in 1679) wrote metrical translations of the Psalms, of Virgil and Ovid, satires, cologies, many tragedies, and an epic poem, Adam and Lucifer, and has obtained the fame of a classic poet, among the Dutch. His language, if not always correct, is nervous. and rich. Among his tragedies is also a Maria Stuart. A complete collection of these tragedies appeared, in 1720, at Amsterdam, in two volumes. Constantius Huggens (who died in 1687) is celebrated for his epigrams, James Westerbaum (who died in 1070) and John Adolphus Dans (who died in 1674) for their crotic poems, Among the poets distinguished for their mirthful vein are John van der Veen (who died 1660) and John. Decker (who died 1664.) Luke Rotgans of Anisterdam (who died in 1710) threned himself : on the model of the ancient classics, and. his epic poem William III, as well as his tragedies, prove sufficiently what inodels he strove to imitate. Jan van Brocckhuy-, zen of Amsterdam (who died 1707), cele-

brated as a critic and a Latin poet, left, foundation of the Athenseums at Brussels also, in the Dutch language, odes, idyls and other poems. The lyric poems of Arnold Moonen and the idyls of Wellckens should not be forgotten. Hubert '-Corneliszoon Poot of Abtwout; near Delft (who died in 1733), was a talented, patural poet," Adrian van der Vliet, syho, besides hiblical poems, wrote a poem,-The Spaniards in Rotterdam (died in 1780).-Pict. Nieuwland (who died in 1794), and several others, are much esteemed. epic poem, called Germanicus, appeared in 1780, by an anonymous authoress. Besides these, we should mention, among the elder poets, Burmann, Smits; and, among the modern, Hieronymus de Bosch, Theod. van Kooten, Klijn, Kleinhoff, Kaldenbuch, Bellamy, Kieuwland, Feith (q. v., who died in 1824), Bilderdyk (q. v.), Hel-mers, Spandow, Van Hall, Tollens, Kil-mers (died in 1813), Kinker, Witsen, Gysbeek, and the Portuguese Jew Dacosta. Bilderdyk, at the same time, is a scholar of the first rank. Even from these short notices it will appear, that much effort has been made to adapt the language to elevated purposes; and these efforts have been crowned with much success. nation has so good a translation of Klopstock's Messiah as the Dutch translation by Groeneveld (Amsterdam, 1784 to 1791, 2 vols.), in hexameters. The prose of the Dutch has, it is true, little euphony and elegance, but it is well adapted to express practical truths in a simple and popular The Dutch prose would, undoubtedly, have acquired greater perfection if their philosophical and other writers had not often made use of a foreign language. Frasmis, Lipsius, Grotius, Wyt-tenbach, and others, wrote in Latin, and Francis Hemsterhuys, that amiable So-, cratic philosopher and tasteful and ingemious writer, in French. As with philosopliy, so also with history. The Dutch prose must gain by translations from foreign languages, which are very numerous in modern times. The sciences have flourished in the northern provinces, and ' kent pace with the progress of the times; but this is not the case in the southern wenhuvzen, for the chication and improvinces. Instruction in the university provement of the lower classes, and of Louvain has not advanced with the which, in 1810, contained 8000 members), the middle agent to the dead forms of Ziericksee, Breda, Luxemburg, Maestricht, the middle agent to the dead forms of the provided agent to the dead forms of the children agent to the dead forms of the children agent to the dead forms of the children agent to the children agent to the dead forms of the children agent to the children agent time; it has adhered to the dead forms of Ziericksee, Breda, Luxemburg, Maestricht, the middle ages. In this the course. Liege, Brussels, Ghent, &c., commin nuquences of the Sparish tyranny, which dreaded the light, have been manifested, and several improvements intended by Joseph II were openly resisted. The abolition of the university at Louvain, during the French government, and the

and Liege, Ghent and Bruges, could not banish the spirit of darkness, which, as late as in 1814, may be thought to have appeared in the joy with which the restoration of the Jesuits was received. Yet there were, in the southern provinces, as well as in the northern, numérous institutions for instruction, at Louvain, Liege, Ghent. Athenaums or gymnasia are found also at Middleburg, Breda, Deventer, Frmieker, Harderwyk and Amsterdam. kingdom had, in the year 1825, 3889 schools, with 383,970 pupils, and 75,648 schools for the poor, and primary schools. The six universities contained 2636 students; Louvain had the most (580). northern provinces had the advantage, in . gymnasia and schools, over the southern ; provinces. In Flanders the gymnasia flourish least. Among the institutions for instruction ought to be mentioned the artillery and engineer school of the kingdom, the military school at Delft, the institution for the deaf and dumb at Greningen, the school for naval architecture at Antwerp, the schools of navigation at Antwerp, Amsterdam and Helvoetslays. Other scientific institutions are, the museum at Amster- . dam (a collection of pictures, drawings, works of sculpture, gems and antiquities, and a public library): the Netherlandish institute for sciences and arts (Nederlandsch Institut van Wetenschappen, Letterkunde en schoone Kunsten), divided into four classes; 1. of sciences; 2. of language; 3. literature and poetry; 4. history and antiquities, and of time arts. At Levden there are public libraries, anatomical, surgical, mathematical and philosophical collections: at Haarlem, the society of the sciences (founded in 1752), Teyler's foundation for the promotion of theology, and some other kindred branches; and an agricultural society (Hollandsche Huishoudelijke Maalschappij): at Groningen, the society pro excolendo jure patria, and many other societies. Thus Arnheim, Zütphen, Bergen-op-Zoom, Utrecht, Amsterdam, Enkhuyzen (where a society exists, established by the minister Jan Nieumerous societies for the promotion of learning, or for practical purposes. Of * the transactions of the academy of sciences and arts in Batavia (founded more than fi ty years ago), the teath volume appeared in 1825. The clergy of Holland.

are unfavorably distinguished by a spirit. Neefs, the famous church painter; David of intolerance, particularly the Calvinists; Teniers, father and son, who, in repremostly kept silent by the fear of persecution. It is still worse with the Catholic priests in Belgium. Part of the Lutheran elergy, however, are enlightened mon. The most tolerant spirit, and the greatest share of knowledge to be found among the Dutch clergy, fall to the share of the Remonstrants and Memonites; but, for this very reason, they are hated and de-spised by their brethren. The study of law and general jurisprudence is in a flourishing condition. The judges and lawyers have a high character. Medicine is well entirated; but intellectual philosophy is in an exceedingly backward state. Even now, there are many who adhere to the Cartesian system. In necessaries and hydraulies, the Dutch are well known to exect.

Netherlandish School of Painters includes all the painters in the Netberlands who, since the fourteenth and tifteenth centuries, have pursued their art in a style peculiar to that country. it is divided into the Dutch and the Flemish schools. The Flemish school was founded by John van Eyk (q. v.) (born at Maaseyk, in the fourteenth century), and is distinguished by a brilliant coloring; magic effect of the charo-scuro; carefully labored, though often tasteless drawing ; a strong, yet natu-, ral expression, and boldness in composition. To this school belong Francis Ploris (born 1520, died 1570), called the Flowish Ruphunt; John Stradamus (de Stract), of Bruges (born 1536), who painted historical pieces and hunting seems; Mart. de Vos (born 1520); Spranger (born 1546); . Peter and Francis Porbus, father and son; Henry Steenwyk, the painter of perspective (horn, 1550); Dionysius Calvart (q. v.); the brothers and Matthew Brit; Van Ort (horn Form) Peter Breughel, and his son John Matthew Brit; Van After all discourance Description After all these came Peter the holdest painter of mod-man of inexhaustible indusborn in 1 Paul Ru ern time fic imagination and power of try, of the imagination and power of representation, to whom about 4000 paintings at the ribed. With him the Flemish school reached its acme. Several dis-, tinguished painters follow: Francis Snydors (born 1579), whose hunting pieces excel all others in boldness and truth; Jodocus Momper (born 1580), a landscape painter, esteemed for his valleys, and the

and the most intolerant are generally the senting companies of peasants, guardmost essecuted. There are, indeed, hon-rooms, tap-houses, and all kinds of low orable exceptions, but such individuals are life, have hardly their equal; Gaspar determined to the control of the control Crayer (born 1582), who approaches, in the expression and coloring of his historical paintings, to Rubens; Gerard Segers, distinguished as a historical painter; his brother Daniel, tamous for flower and insect pieces. Junes Jordaeus (born 1594), however, excelled all those who made Rubens their model. Abraham Janssen, and his pupil Theodore Rombouts (greater than his teacher) equal Rubens in coloring; but not in conception. The industrious Luke van Uden executed the landscapes for Rubens's paintings; and his views of the sky at down are worthy the study of every artist. Anthony van Dyk (born 1599) obtained the name of the king of portrait painters. He excelled Rubens in correctness and beauty of forms. Cornelius Schat, for whom John Wildens often painted the landscapes, distinguished himself as a historical pointer; Adrica Brouwer acquired fame by his excellent represemations of scenes from common life; John van der Meer by his pastoral pieces; Anthony Francis van der Meulen by his battle pieces; Francis, and John Milet, father and son, by their landscapes. Besides these, we might mention the names of John Bol. Wenceslaus Koeberger, Henry Goltzius, Henry van Balen, Francis Hals, William Nieuwland, James Fouquières, Philip de Champagne, Erasmus Quellin, Abraham Diepenbeck, Theod. yau Thulden, John Goein r James of Artois; Bonewent Peters, David-Kickaert, Gonzalez Coques, Peter Boel, Samuel van Hoogstrauten, John Bapt. Monover, Abraham Genoels, Gerard Laircsse, Arnold von Vuez, John Francis van Bloemann, John. van Cleef, Pet. Eykens, Richard van Orley, Louis Deyster, Nicolas Largillière, Verondael, Robert van Oudenaerde, John Anthony ** van der Lecpe, Caspar Verbrügen, John van Breda.—The Dutch school is distinguished for a faithful copying of nature, great finish, good chiaro-scuro, and skilful disposition of colors, and delicate penciling; but it is reproached with choosing often ignoble subjects, and with incorrectness of drawing. 'Its founder is Luke of , Leyden (q. v., born 1494). Its most prominent artists are, Octavitus van Veen, of 💒 Leyden (born 1586, died 1634), who deserves mention, also, as the teacher of Rubens. Abraham Bloemart (q.v.), of Goreum (die 1 1647), painted historical subjects, distant views which they present; Peter landscapes and animals, in good taste.

Cornelius Poclenburg, of Utrecht (born 1586, died 1663), was peculiarly happy in · painting small landscapes, with figures. Worthy pupils of his are Daniel Vertange and John van Haensberge. John Weymants, of Harlem (born 1600) is distinguished as a landscape painter; and John Daniel de Heem, of Uwerht (born 1604, died 1674), for his faithful imitation of flowers, fruits, carpets, vases, &c. The · highest place belongs to Rembrandt, whose masterly coloring utories for all his defects, and Hermann Sachtleben (Zachtleevens), who painted fine landscapes. In the defineation of common life, the following are distinguished: Carard Terburg, of Zwell (born 1608, died.1681); in landscapes, John Both, of Unrecht (born 1610, died 1650); Hermann Swaneveld, of Woorden (born 1620, died 1690). Asselyn (born 1610, died 1680) painted blattles, landscapes and phstoral pieces, with a brilliant coloring and a delicate pencil. . But it will be difficult to find any painter who draws more correctly, colors more beautifully, and distributes light more truly, than Gerhard Dow, or Douw (born 1613 died 1680). Peter van Laar was the inventor of the Bambacciale; John Fyt (born at Antwerp, 1625) was a good painter of beasts, birds and fruits; Gabriel Metzu, who worked in the style of Terburg, excelled him in soliness of perciling. The landscapes of Beneaberg of Utrecht are toll of life and freshness. Philip Wouvermann (born 1620, died 1668), the most fanous painter of horses, produced battle and limning pieces, horse-markets, trave new and robbers; and his paintings, of an kinds, are highly esteemed. His pupil John Griffer painted the beautiful views on the Rhine. The landscapes of Anthony Waterloo, for which Weenix executed the figures, are sometimes cold, but please on account of the accuracy with which he represents light playing through foliage; and the reflection of objects in water. Berghen acquired the name of the Theoretius of painters; and perhaps Paul Potter is the only one who can dispute the superiority with him! Whilst Ladolf Backhuyson painted storms at sea with an effect as true as it is terrible, Francis Mieris distinguished himself by fine and accurate representations of many domestic subjects, and John Peter Slingeland was hardly more accurate. Godfrey Schulken, of Dort, has not yet been excelled in the illumination of night scenes. Excellent market seemes, animals and landscapes were painted by Charles du

landscapes and animals with almost unequalled perfection. For the representation of the beautiful solitudes of nature, James Ruisdacliscelebrated, and for quiet, lovely moonlight scenes, Van der Neer. The former is one of the most successfulpainters that ever attempted to portray nature. No painter has printed more delieately, and with more finish, even in insignificant tritles, than Adrian van der Werf. The flower painter Peter van Hulst, of Dort, is not equal to James van Huysun, who is almost unrivailed in this department. We must also mention Cornelius Ketel, John van Ravestein, John Torrentius, John van Voyen, Anna Maria Schnurmans, Adrian van Ostade, John Booth, Bartholomew van der Helst, Ono Marcellis, John Goedaert, Albert van Everdingen, Henry Rokes, Gerbrandt van den Eckhout, Theodore Helmbreker, James Laveeq, Henry Verschuuring, Wary van Osterwyk, William Kalf, Adrian van der Kabel, Jan Steen, Melchior Hondekoeter, John van der Heyden, E. van der Neer, John Glauber, John van Buchtenburg, Aug. Terwe-tein, John Verkoolie, Cornelius de Bruyn, Charles de Meor, Francis Peter Verheyden, the two Honbraken, Rachel Ruisch, Cornelius du Sart, Frederic Moncheron, Diedr. Valkenburg, Conred Noepel, John de Witt, and Cornelius Troost, - It is remarkable that, after a long decline of the art of painting in the Netherlands, it has begun to flourish again in the southern, as well as northern provinces of the kingdom. Among the modern painters, we should mention Van Os, Van Spaendonk, Scheffer, Pienemann, Hoges, Kuipers, Ommegang, Van Bree, Wonder, Schotels. Pictermann's picture, the Battle of Waterloo (eighteen feet wide, and twenty five high), was bought, by the king, for 40,000 guilders, for the purpose of being presented to the duke of Wellington. Respecting the living artists of the Belgic school, information is to be found in the Annales du Salon de Gand (1:23). The reproach of an almost exclusive adherence to common reality, has been often made to the whole school of the Netherlands, but is confined by some to the Dutch; whilst the Flemish school; they say, in its more elevated productions, has striven to The chief represent a nobler nature. question in painting, however, is not what the artist attempts, but what he accounplishes; and, it George Forster is right in enying that, in the works of the Flemish painters, we generally miss the spirit of the poet in the beauty of the manual ex-Jardin. Adrian van de Velse pointed ecution, then the Dutch school would de-

two schools. That they both have great merit in respect to the technical part of the art, has never been doubted; and that they have greater merits, to a much higher degree than is generally lowed them, will be evident from a careful study.

NETSCHER, Gaspar, one of the best painters of his time, was born at Heidelberg, in 1639. His father, John Netscher, a sculptor, died when the subject of this' article was quite young. Gaspar was adopted by Tullekens, a physician in Arnhein, near Utrecht. He soon showed his talent for painting, and, at a later period, intended to go to Italy to perfect himself; but he married in Bordeaux, and returned to Holland. He settled at the Hague; and the necessity of supporting a nu-merous family obliged him to devote himself to portrait painting and small pieces, though his Death of Cleopatra proves that he had talent and inclination to distinguish himself in the higher branches of the art, and to elevate himself Even in that point above his school. which forms the characteristic excellence of the Dutch school,—a faithful imitation of nature, and particularly of the materials of dress he excelled the Dutch painers. The white satin and velvet, in the drapery of his paintings, and the wool of his curpets, are more almost to deception. His smaller touch is easy and delicate. His smaller cabinet pictures are most highly valued, on cabinet pictures are that highly valued, on account of their finish. In these he reparation of their finish. In these he reparation of their finish, and the property found of portray-figures; he is particularly found of portray-figures; he is particularly found of portray-figures; he is particularly found paintings, he generally selected his subjects from the preventage history. He died at the Hague in 1884, and left two stars. Constanting and Recodore (called the preventage), who were also meritorious paintings, but much inferior to their father.

inferior to their father. Christian; a Nervenbeck, Joachim entioned for ite and perman who deserves to his patrioniam, his divel severance exhibiting of firmers and honors posting brillians in ce of great ch. there is the was

serve the preference, because, though it been a sea captain, and was one of the takes most of its subjects from common, persons (though then 70 years of old) to reality, it often represents them with a powerful the honor of being the only Prussian for the light of the honor of being the only Prussian for the light, however, to describe them both tress not taken by the French, in 1807, in as deficient in ideal beauty, but as distinguished, in the highest degree, for faithful in 1824, aged 86 years. In his old age he imitation of nature. There would still wrote his own life; which appeared in remain sufficient distinction between the Leipsic, in 3 vols. It is a work of much interest, and we should like to see a good translation of it, as a relief among the many high-flown fictions of the day.

NETTLE (urlica); a genus of plants, consisting chiefly of neglected weeds, having opposite or alternate leaves, and inconspicuous flowers, which are disposed in axillary racemes; the fruit is a small seed, surrounded by a persistent calyx; the flowers are monecious, or, in a few instances, directous. The species are mostly herbaceous, and are usually covered with extremely fine, sharp, tubular hairs, placed upon minute vesicles, filled with an acrid and caustic fluid, which, by pressure, is injected into the wounds caused by the sharp-pointed hairs. Hence arises the well-known stinging sensation, when these plants are incantiously handled. our species, this stinging is of but little consequence; but, in some tropical species, it is followed by exceedingly painful and even dangerous effects. The fibre of the U. dioica, a common plant in waste places, both in Europe and the U. States, resembles that of the hemp, and may be obtained in the same manner: very fine cloth and paper have been made from it, but hitherio it has not béen extensively manufactured. The natives of Kantschatka make cordage and fishing-tackle from a second species; and it is probable, that several others may be employed for similar purposes. More than 120 species of nettle are known, of which four or tive only are natives of the U. States. Among these last is the U. pumila, or rich-roged, " remarkable for its smooth and semi-transparent stein.

Neu (German for new) occurs in a very great number of geographical names, like the English new, Greek neo; nen; Schevonian novy, Russian novoi and novaia, Spanish nuevo, and the Danish and Swedish ny.

NEUCUATEL NEUCHATEL (Neuenburg, or Welschnenburg), a Swiss cauton, and sovereign Prussian principality, contains, with the county of Wallengin; 52,000 inhabitants, on 296 square miles, and is bounded by Franço and Switzerland. pranin, had. After various changes of masters, it cares

West Comments of the Comments into the hands of the old French family nishes 1000 men to the army of the Swiss. of Longueville, which became extinct in confederacy. (See Switzerland.) 1707. by the death of Mary of Orleans, Neunor, Theodore, Daron of king of 1707, by the death of Mary of Orleans, duchess of Nemours. The king of Prus-Vsia, as heir of the house of Orange, whose claims to the principality were acknowledged, was then called to the sovereignty, by the states of Neutchateau, and his title was confirmed by the peace of Utrecht. In 1806, Prussia edded it to France, and the emperor conferred it on marshal Berthier, afterwards prince of Neufchatel-Wagram. By the peace of Paris, it was restored, with additions, to Prussia. king granted it a constitutional charter, dated from London (Jan. 18, 1814), with the privilege of forming a separate state-In 1822, the principality was received into the Swiss confederacy, as the 221 canton, and is the only one which has a monarchical government. Several ridges of the Jura run through the country. The lake of Neutchatel (Neuenburgersee), 28 miles long by 8 broad, is plentifully supplied with fish, and communicates with the Rhine. Grazing is extensively attended to; wine, fruits, hemp and flax are produced; the corn raised is not sufficient to supply the wants of the inhabitants. The manufactures are more important: the principal are lace, contou and clocks; a considerable trade is also carried on in cutlery, mathematical and philosophical incomments, chintz and other cotton stuffs. - The freedom and mildness of the government attract many foreigners. There are about 12,000 watch-makers here, whose instruments are used over all Europe nu. iu America. (See Chaux-la-Fonds.) The religion is Protestant (Reformed); there are two. Catholic societies. The , language is French; but German is also speken. Half of the revenue (150,000 lives) is applied to the improvement of the condition of the country and to the expenses of the government. The capital, Newschalel, lies at the foot of the Jura, in a beautiful country, where the noisy Seyon empties itself buto the lake of Neufchatel. The town is not badly built, and contains 5600 inhabitants. It is the centre of the trade of the principality. The institutions for instruction, and other institutions, have been carried to a high degree of perfection, by means of a legacy of 3,000,000 guilders, left by Pury, a merchant, who was a native of Montellatel, but settled at Lighton. Pourtles areather merchant, founded an hospital by a logary flon, is a stone, erected by the earl of Or of 700,000 frairs, which was much air. of 700,000 fraifes, which was much an ford (Valpole), in 1758, with the follow-crossed by his beins. Neufchard fire ing inscription: vot ex

Corsicu, was descended from a noble family in Westphalia. His father, a coptain in the guards of the bishop of Manster, died in 1605. Theodere studied in the college of Jesuits, at Manster, at a later. period at Cologne, whence he fled to the Hague, after laving killed a young man, of a distinguished family in a duel. Through the mediation of the Spanish minister, he received a lientenancy in a # Spanish regiment of cavalry, designed: to march against the Moors, in Africa. On account of his good behavior, he was promoted to a captaincy. In a sally from the fortress of Oran, he was made prisoner, and was sent to the dev of Algiers, 'v where he is said to have served, for 18 years, as an interpreter, and to have been employed in the most secret transactions. When the Corsicans, after several unsuccessful attempts to free themselves from ; the oppressions of Genoa, resolved, in 1735, to form a government of their own, they applied to the deys of Algiers and Timis for assistance, who actually sent two regiments of cavalry, under the command of baron Neuhof, with such military stores as the islanders needed. Neuhof. was received with great joy, and, in 1736, was crowned king of Corsica with a wreath of laurel. He had silver and copper coins struck, and established an order. of knighthood, under the name of the Order of Deliverance. In November. 1736, he left Corsica in order to obtain foreign assistance, and returned, in 1737, with military stores, purchased with the advances which some Dutch houses hadmade in consideration of the promise of. an advantageous commerce, in olive oil, with the island. In 1738, however, French troops again reduced Corsica under the Theodore had dominion of the Genoese. been obliged to flee. In 1741, when the French retired, new troubles arose; but ? Theodore could not maintain himself. against the Genoese and a Corsican opposition. He fled to England. Here his a Dutch creditors pursued him, and he was arrested for debt. In 1756, Horace Walpole caused a subscription to be made for. him, and thus enabled him to make a setthement with his creditors. But he died of grief, in December of the same real At the back of St. Anne's, Soho, int.

Near this place is interred
THEOHORE, KING OF CORSIGA,
Who dued in this Parsh
December XI. MDCCLVI.,
Inunedately after leaving
The King s Bench Prison,
By the Beacht of the Act of Insolvency;
In consequence of which
the registered his Kingdom of Corsica
For the Use of his Creditors!

The grave—great teacher—to a level brings Hero's and beggms, galley-slaves and kings! But Theorotic this moral learned, ere dead; Fate pouted as lessons on his living head. Bostowed a kingdom, and denied him bread.

Neukonn, Sigispund, a distinguished German composer, was born July 10, 1778, in Salzburg, and showed, as early as his sixth year, much talent for music. In his 15th year, he was appointed organist of the university in Salzburg, where he continued his studies with great zeal. His father, teacher of calligraphy in the university, took great care of the scientific and musical education of his son. Michael Haydn instructed Neukomm in composition, and often caused him to act for him as first organist to the court. In his 18th year, he was appointed correpcti-Lor of the opera, at the theatre in Salzburg, on which he resolved to make music his exclusive profession. In 1789, he went to Vienna, where Joseph Hayda received him among his pupils, and treated him like a son. Until 1801, he remained in this situation, after which Le was appointed chapel-master and director to the German opera in St. Petersburg. A severe disease obliged him to give up this place. In 1807, he was elected a member of the academy of music at Stockbolm, and, in 1808, member of the philharmonic society at Petersburg. During . his residence in that city, be brought forward several of his compositions, with great applause; but he could not be pre-vailed upon by his friends, and his master, Jos. Haydn, to publish any of them until 1808. He then went to Paris, in order to study more attentively the higher style of dramatic music, and thence to Rio Janeiro, as composer to the prince of Brazil. In 1824, he returned to Europe, and lived with prince Talleyrand. In 1826, he went to Italy. Among his chief works is his grand fantasia, for the whole orchestra, a work equally hold in conception and perfect in execution, by which he struck out a new path. Three others followed this. Othis church compositions, some of the most distinguished are bis. Requiem, his Stabat Mater, and the canton Der Ostermorgen, by Tiedge. He

has, besides, composed many pieces, great, and small, among which is the grand opera Alexander; also psalms, canatas, &c. All his compositions are distinguished by their thoroughness and purity.

NEUROLOGY. (See Anutomy.)

NEUROSES. (See Nervous Diseases.)
NELSTRIA, in the geography of the middle ages; the western kingdom of the Franks, in the north of France, so called in opposition to Austrasia (Austria, Cestreich), the eastern kingdom of the same. The term is derived from the negative particle ne (not), and Austria. On the death of Clovis (511), his sons divided his territories into two parts, which received these names. Neustria lay between the Meuse, the Loire, and the ocean. (See France, and Meroeingians.)

NEUTERS, (See Bees.)

NEUTRALITY (from the Latin noder, neither) means, in the law of nations, that state of a nation in which it does not take part, directly or -indirectly, in a war between other nations. To maintain itself in this state, a nation is often obliged to assume a threatening position, to be able to repel, in case of necessity, every agre-sion on the part of either of the belligerents. Such neutrality is termed an armed acuteatity. From the state of neutrality arise certain rights, and obligations towards the belligerents. A neutral nation is allowed to render any services to either of the belligerents, which do not necessarily tend to assist him in carrying on hostilities. It must not send him troops, arms or ammunition. It cannot refuse to one what it is a allowed the other; for instance, the right of marching through its territory, supplies of provisions, &c. With either of the belligerents the neutral nation has the right to conclude treaties, if they are not intended to aid the belligerent in the war, or do not necessarily presuppose a war. As, however, in war, force is the main arbiter, it is most advisable for a neutral power to conclude special treaties of neutrality, in which the rights and duties of the neutral power are settled, as it may be easily imagined that there will be always many disputed points between it and the belligerents. doubtful points are chiefly the following: Whether the neutral state can allow the belfigerents loans, commerce, and even the right of enlisting troops; what goods are to be considered prohibited; whether they can be seized; whether a passage through its territory is to be permitted to the troops of the belligerents; how the anlawful requisitions of one of the belligerents are to be

opposed: what security is to be given on Prussia was obliged to make an explanathis account; the compensation to be rendered if hostilities are committed in the neutral territory, &c. In maritime wars, the treatment of effects of the enemy on board neutral vessels, or neutral effects on board a hostile vessel, give rise to very important questions. (See Contraband.) In former times, the principle was pretty generally admitted, that the ownership of the goods on board of the vessels was the only point to be considered, and not the property of the vessels themselves. The belligerents, therefore, seized merchandise belonging to the enemy on board of neutral vessels; but they restored neutral property seized under the enemy's flag. But the endless investigations which this system caused, as a consequence of it was the searching of neutral vessels, produced, by degrees, a new and totally contrary principle, that the flag protects the cargo (le navire neutre courre la cargaison ennemic, or le pavillon couvre la marchandise), so that nurchandisc of the enemy under a neutral flag was safe, bût neutral merchandise under a hostile tlag was good prize. This principle, since the middle of the seventeenth century, was adopted in several treaties, particularly between France and other Great Brimin, however, governments. wished to enforce the former principle in the war with her colonies in North Americo. The empress Catharine of Russia, on the other hand, declared in 1780, that she was willing, if necessary, to enforce by arms the new principle, "free ships, free goods." This principle formed the basis of he vistem of the armed neutrality, in which France and Spain joined with Russia, and to which also Denmark, Sweden, Holland, Prussia, Austria, Portugal and Naples accorded by separate conventions with Russia. England opposed it; yet she was obliged, several times, tacitly to admit the principle. In the French revolutionary war, and the hostilities between . England and Naphleon, the former returned entirely to the old principle. (See Continental System.) Since the peace of Paris, mis point has remained unsettled. It came up ugain in the privateer wars of Colombia and the Greeks.—Respecting the armed neutrality of 1780, of which count Bernstorff probably suggested the first idea, see Mémoire sur le Neutralité armie, &c., par le Comte de Görtz (Basle, 1821); Tooke's Lefe of Catharine II (vol. ii); Dolm's Materialien für Statistik (6 vols., 1782), and Denkwürdigkoiten meiner Zcil (1815, 2 vols.).—During the recent struggle between Poland and Russia, when

tion respecting the assistance which she gave to the Russians, by allowing them to , retreat to her territory, without disarming them, and to obtain provision, &c., from the same quarter, the Prussian government declared that it was not in a state of neutrality as to the two belligerents, but in a state of non-activity. This state of non-activity, however, allowed her to prevent the passage of money sent from England to the Poles through her territory; also to stop the conriers of other powers, and to disarm the Poles who had entered her limits. (For the principle of armed

intervention, see Intervention.) NEUTRALIZATION, in chemistry, may be thus explained; if we take a given quantity of sulphuric acid diluted with water, and add it slowly to the solution of soda by little at a time, and examine the mixture after every addition, we shall find that, for a considerable time, it will exhibit the properties of an acid, reddening vegetable blues, and having a taste perceptibly sour; but these acid properties gradually diminish after every addition of the alkaline solution, and at last disappear altogether. If we still continue to add the soda, the mixture gradually acquires alkaline properties, converting vegetable blues to green, and manifesting a urinous taste. These properties become stronger and stronger, the greater the quantity of the soda is which is added. Thus it appears, that when sulphuric acid and soda are mixed together, the properties either of the one or the other preponderate, according to the proportions of each; but there are certain proportions, according to . which, when they are combined, they mutually destroy or disguise the properties of each other, so that neither predominates, or rather so that both disappear. When substances thus mutually disguise each other's properties, they are said to neutralize one another. This property is common to a great number of bodies; but it manifests itself most strongly, and was first observed, in the acids, alkalies and earths. Hence the salts which are combinations of these different bodies, received long ago the name of neutral salls.

NEUTRAL SALTS. (See Salts.) NEUWIED, prince Maximilian Alexander Philip, born Sept. 23, 1782, brother to the reigning prince Augustus of Wied-Neuwied. Alexander von Humboldt's fame inspired him to distinguish himself likewise by the observation, of nature .. He went, in 1813, to England, and thence to

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Brazil. In 1815, he left Rio Janeiro, with two other Germans, Fellow and Freyreiss, and some armed companions, and went to Cabo Frio, thence to Villa St. Sulvador dos Campos dos Gouytacasas, nearer the sea. On the Rio-Doce he became acquainted with the warlike Botocudes, of whom he is the 'first who has given accurate information. In 1816, he proceeded to Villa Vicoza. On his way to Sta. Cruz and Villa Belmonte, be touched upon Janassema, where traces of an extinct race of men are to be found. His desire to visit less known countries induced him to go as far as the frontiers of Minas Geraes. Through althost inne-netrable woods, his company made their way with the axe to Vilia de S. Pedro d'Alcantara, and proceeded again through woods which they left not until they had reached Barra da Vareda. state of his health induced him to return straight through Sertam to Bahia, where he embarked, May 10, 1817, for Lisbon. The description of his journey (2 vols., 4to., with many engravings and maps, Frankfort on the Maine, 1819) shows with what knowledge and courage he has examined the country along the eastern shore of Brazil, from 15 to 23° S. latitude. He has also published treatises on subjects of natural science in the transactions of the academy of naturalists at Boun. Of his Abbildungen zur Nuturgeschichte Brasilions (Weimur, fol., the Alth number appeared in 1827. his collections are very numerous and valuable.

NEUWIED; capital and residence of the mediatized prince of Neuwied, in Prossia, on the Rhine, three leagues distant from Coblentz, in a beautiful plain. contains 4800 inhabitants, and manufact. tures of various kinds of goods. It is not quite a century old. Its prosperity has been greatly promoted by the free exresise of religion, permitted to all de-· nonimations; so that it contains at present Protestants, Catholics, Moravians, Mennonites, Quakers, Jews, &c.

NEVA; a river of Russia, which issues from lake Ladoga, and, after a westerly course of about thirty-five miles, flows into the gulf of Finland, below Peters-burg, by three mouths. It is from 300 to 400 yards wide, and 10 or 15 feet deep, and, of course, navigable for vessels of - considerable size. It is generally frozen over from October to April. The water is pure, and is used for drinking and cook-

high mountain belonging to the Andes, in Upper Peru, about lifteen leagues from through Newark.

La Paz. It is one of the richest gold mountains of South America. A little sil-

ver has also been discovered there.

Nevis, or Nievis, an island of the West Indies. It is a beautiful spot, and little more than a single mountain, whose base is about 23 miles in circumference. That the island was the production of a volcano, is very evident, a crater being .. visible on the summit, and sulphur frequently discovered in the cavities of the carth. It is well watered, and in general fertile, producing much sugar. The exports are estimated at 877,400 dollars. It belongs to the English, and is divided into tive parishes, containing 15,750 inhabitants; 500 white, 250 free people of color, and 15.060 slaves. It contains one town, Charlestown, which is fortified.

New. For names beginning with this adjective not given here, see the articles under the name which follow it. Thus, for New Britain, New Castile, New Caledonia, New Grenada, New Holland, & c., .

see Britain, Castile, &c.

NEW ALBION. (See Albion, also Culifornia, New and Old.)

. New Austerday. (See Arw York.) N . Agenangel, or Sitea; a port and town on the island of Baranov, in King George the Third's Archipelago, ou the north-west coast of North America; lat, 57° 30' A.; chief place of the Russian settlements there. From this place at intercourse is kept up with China and the Marquesas. The commerce is a monopoly in the hands of the Russian North American company, the directors of which are in Petersburg. (See Russia.)

Newank; a post-town and capital of Essex county, New Jersey, nine nales west of New York city; population, in 1820, 6507; in 1830, 16,953. It is finely situated on the west side of Parsaic Tiver, six or seven miles, by the course of the river, above its mouth, and only two or three in a direct line. It is handsomely built; many of the houses are elegant, and it is one of the most beautiful towns in the U. States, It contains a court-house, a jail, two banks, an academy, and five houses of public worship, two for Presbyterians, and for Episcopulians, Baptists and Methodists, one each. It has extensive manufactures of shoes, leather, conches, fancy chairs, and cabinet work. The Pasfancy chairs, and cabinet work. saic is mavigable to this town for sloops of 80 tons. The cider, so well known by ing, in Petershing. the name of Newark cider, is chiefly made Nevados de Lecimani, or Illimani; a in the township of Orange, on the west Morris canal passes : side of Newark. ٠. .

New Benforn; a post-town and port of entry, Bristol county, Massachusetts, 52 miles south of Boston; Jon. 70° 56' W.; lat. 41° 38' N. . It is separated by Accushnot river from Fairhaven, which formed a part of this town till 1812. It contained, in 1820, 3947 inhabitants, and in 1830. 7592. Its population is now (November, 1831) estimated at 8000. The town stands on an arm of Buzzard's bay, and is laid out upon ground sloping to the water, in streets intersecting each other at right augles. The situation is very pleasant, and the appearance of the town indicates, what is really true, that its inhabitants possess great enterprise and wealth. The rapid increase of its trade and population shows that it is one of the most flourishing towns in the U. States. The whale fishery constitutes the principal business of the people. They have at present 144 ships and 15 brigs engaged in this business; and many vessels en-gaged in other branches of commerce. The town contains a court-house, a jail, an alms-house, three banks, two insurance offices, an academy, a flourishing lyceum, four printing-offices (one of which issues a daily paper, and the others weekly napers), eleven churches, viz. three for Congregationalists, three for Baptists, two for Methodists, one for Africans, one for Friends, and a Catholic chapel. A chapel for seamen is now being erected.

NEWBERN; a post-town, port of entry, and capital of Craven county, North Carolina, on the south-west bank of the Neuse, at the junction of the Trent, 119 miles south-west of Raleigh; lon. 77° 57 W. lat 35' 20' N.; population, in 1820, 3363; in 1830, 3776. It contains a courthouse, a jail, a theatre, two banks, an academy, a public library, and houses of public worship for Episcopalians, Bap-tists and Methodists. The town is very pleasantly situated, handsomely built, and mostly of brick, and is the largest and most improved town in North Carolina. It is considered healthy, and has considerable commerce. The exports consist principally of grain, pork, lumber, and naval stores. A steam-boat plies between Newbern and Elizabeth City, and thus 'connects it with the great routes to the . northward, and to Charleston (South Car. olina).

New Baunswick; a city of New Jersey, partly in Middlesex, and partly in Somerset county, on the south-west side of Raritan river, 17 miles by the course of the river above Raritan bay, 12 miles west of Great Britain and the West Indies. The Amboy, 33 miles south-west of New York, capital of the province is Frederickton. It stands on St. John's river, and had, in

74° 23' W.; lat. 40° 30' N.; population, in-1820, including the township, 6764; in 1830, 7831. It contains a college, a theological seminary, a jad, two banks, a courthouse, and houses of worship for Presbyterrans, Episcopalians, Dutch Reformed church, Baptists and Methodists. A con-siderable pair of the town is singated rather low, but is accounted healthy, and has considerable trade. The exports consist chiefly in grain. The Raritan is navigable to this place for sloops of 80 tons. Here is a bridge across the river. Rutgers' college was founded in this place by the ministers of the Dutch Reformed church in 1770. The building is a spacious stone editice, three stories high.' It has a president, nine instructors, and seventy students. A theological seminary was established here in 1811, by the Dutch Reformed church. It has three professors and twenty-four students. The mode of instruction is by lectures, and the course. lasts three years.

New BRUSSWICK; a British province of North America, bounded north by Lower Caunda and Chaleur bay, east by the gulf of St. Lawrence, south by Nova-Scotia and the bay of Fundy, and west by Maine. It is divided into 8 counties and 59 parishes. The population, in 1824, was 73,626. We have not been able to obtain an authentic account of the present statistics of this province, and must give only an imperfect description of it. The bay of Fundy, on the south, nearly divides New Brunswick from Nova Scotia. Passamaquoddy bay forms its south-western boundary, the bay of Chalcur its northwestern, and the bay of Miramichi in-dents it on the east. The principal river is the St. John's, which is navigable for boats to the Great falls, near the border of Maine, and a further distance of $200\,$ miles \sim above the falls. The other chief rivers. are the St. Croix, which forms a part of the western boundary, and the Miramichi, which is a considerable river flowing into Miramchi bay. The country is neither? mountainous nor level. On the borders of of the rivers, and is the interior of the country, there are forests of excellent timber. Great quantities of lumber, and especially of pine timber for ships, and carried down the Miramichi. Much of. the land is good for tillage; but only at small portion of it is well cultivated, Lumber and fish are the principal articles. of export; and the trade is mostly, with Great Britain and the West Indies. The

and some common schools are patronised. Massichusetts, containing only 647 acres. by the colonial government. St. John's, It is bounded on the north by Merrimack city, at the mouth of the river of the river, and on all other sides by Newbury. same name, had, in 1824, a population of 8488. It is a flourishing city, and has an extensive and profkable trade. The tides is its harbor, and in other parts of the bay of Fundy, often rise to the height of thirty or forty feet. The other principal towns are St. Andrew's, at the mouth of St. Croix river, and Miramichi, on the bay of the same name. The chief executive officer of New Brunswick, entitled lieutenantgovernor, and the members of the council, twelve in number, and the judges, are appointed by the king. The members of the house of assembly, twenty-six in number, are elected by the people.

Newsuran; a post-town and port of entry in Orange count, New York, on the west bank of the Hudson, 10 miles south of Poughkeepsie, and 65 north of New York city. The population, in 1820, was 5812; in 1830, 6424. The village of Newburgh is pleasantly situated, well built, and flourishing, and commands a delightful view of the Hudson and the Highlands. It contains a bank, a very respectable and flourishing academy, and houses of worship for Presbyt rians, Associate Reformed Pre-byterions, Episcopalians and Methodists. The academy contains a valuable library, and an excellept collection of maps, mathematical apparatus, &c. The principal streets are paved, and the village is well supplied with excellent water. The courts for the county are held alternately at Newburgh and Goshen. The village has considera-... ble shipping; and the town has extensive manufactures, and is very valuable for the purposes of agriculture.

NEWBURY; a town in Berkshire, England, 51 miles east of Bath, and 56 west of London; population, 1298. It is situated on the Kennet, which is made navigable to Reading, and joins the Thomes. Near this town were two obstinate battles fought, between the royalists and the forces of the parliament, king Charles being present at both of them; the first "September 20, 1643, and the other Octo-

ber 27, 1644.

Newsuaxroar; a post-town, port of entry, and one of the shire towns of Essex county, Massachusetts, stands on the south bank of Merrimack river, three ruiles from his mouth, 24 miles north of Falem, and

. 1824, with the parish of Frederickton, 1849 population, in 1820, was 6852; in 1830, There is a college here 1,6375. This is the smallest township in It was separated from Newbury in 1764. The town has a remarkably pleasant anpearance; especially when viewed from the opposite bank of the river. The streets are regular, and cross each other hearly at right angles. High street overlooks, the town, and has a delightful prospect of the harbor, Plum island, the ocean, and the country on the northern bank of the Mer-The dwelling-houses are uncommonly good, and the public buildings are in handsome style. It has a brick court-house, a stone jail, a brick market-house, a town hall, four brick schoolhouses, and seven churches. Newburyport rose rapidly from the close of the revolution till 1806. It was extensively engaged in the West India and the carrying trade. The embargo, subsequent restrictions on commerce, and the late war, were dreadful evils to this fown. A fire, in 1811, do-stroyed 250 buildings. The construction of Middlesex canal deprived it of the lumher trade. Still, the town repairs interesting and important. Congress has made an appropriation for improving the month of the harbor. A fund of \$50,000 was lately given for the improvement of its literary institutions. The shipping amounted, in 1826, to 20,494 tons. The thities on itnports the same year were \$40,966. The value of imports was \$166,811; of exports of domestic productions, \$190,720. The average annual income from the codtishery is \$50,000; and 24,000 barrels of . mackerel have been caught in a year. There are several distilleries, a valuable browery, and manufactures of carriages, shors, hats, cordage, morocco leatlier, and gold and silver plate. The great line of eastern stage-coaches runs through this town, and a steam-boat has run between this place and Haverbill. A bridge, suspended by chains, connects Newburyport, with Salisbury. A turnpike and bridge connect it with Plant island. A newspaper has been issued weekly since 1773. Many persons resort to Newburyport for a summer residence; and it has been the birth-place or residence of many distinguished men.

Newcastle, Duke of. (See Caven-

NEWCASTLE-UPON-TYNE; a large, populous, and trading town of England, chief : 2 north-horth-test of Boston's the turn-pike; lon. 70° 52° W. Jat. 42° 49' N. Its on the northern bank of the river Tyne.

about ten miles from its month. Ships of 300 or 400 tons burden may reach the extent. Newcastle is a town and county town. Many of the public buildings are we'l deserving of notice; the thost striking is that of St. Nicholas s church. 'This .. church is supposed to have been raised in 1359. It is 240 feet long, 75 broad, and the height of the tower is 194 feet. remains of the ancient castle stand on an eninence, overlooking the whole town. The great tower is about 80 feet high, 62 feet by 51 on the outside, and its walls 14 feet thick. The walls of the town are supposed to have been built during the thirteenth century; they were noted for strength. There were seven gates of errength. great strength, and seventeen round towers. Newcastle is noted for its collieries, which are principally situated along the Type, both above and below the town. From this magazine, the vast consumption of the metropolis, the whole of the eastern, and most of the southern coasts of the island, and the opposite coasts of France, Holland and Germany, have for centuries been supplied. In 1826, the quantity exported wils—coastwise, 800,437 Newcastle chaldrons; over sea, 39,735. The best beds are about ninety fathoms deep, and seldom more than five feet thick. They rest principally on sand-stone and slate. The water is pumped out by mean of steam-engines. In many of the pits there are 50-100 horses used in transporting the coal. This takes place on iron rail-roads extending from the pits. to the nearest bank of the Tyne. On the Type, above and below ground, 38,475 men re employed in the collieries and the works therewith connected. The foreign trade of Newcastle consists chiefly in the importation of wines and fruits from the south of Europe; and of corn, timber, iron hemp, and other commodities, from the Baltic and Norway. The principal exports, besides roals and lead, are grindstones, salt, butter, tallow, and salmon from the fisheries. Several ships are also sent to the Greenland fishery. The numbor of vessels which cleared out in 1826, were-colsters, 11,625; foreign, 1999, countryman, doctor Robert Hooke, to Newcastle has extensive potteries, glass whom he communicated his projects and houses, and chemical works for making inventions. Newcommen, having had his White-lead, minium and vitriol; manufuctories in iron, tin, and every kind of mend ; machines for fabricating brass wire, plate metal, e.e., The glass works here, in particular, are conducted on a very extensive scale. In them, are made, Cornwall, conceived the idea of producing

Shap-building is also carried on to a great of itself and was made a borough by William the Conqueror, and has sent two members to parliament since the teign of Edward I. Newcastle is a place of great antiquity, and of considerable note in history; it was a military station among the Romans. The present name is derived: from a new castle, which was built on the site of an old fortress in 1080; population, 35,181; 270 miles north by west of London ; lon. 1° 37' W. ; lat. 51° 58' N.

Newcome, William, an English prelate. born in 1729). His father procured him a scholarship at Pembroke college, in the university of Oxford. From this society he removed on a fellow-hip to flertford college, of which he became intor. In 3 1765, he went to Iroland, in the capacity of chaplain to the lord-licutenant, the earl of Heriford, and became successively bishop of Dromore, Gssory and Waters ford. In 1795, earl Fitzwilliam, the then viceroy, translated him to the primacy. Archbishop Newcome was the author of a great variety of theological tracts, the principal of which are a Revision of the English Translation of the New Testament (Svo., 2 vols.); an Attempt towards an . improved Version of the Book of Ezekiel; a similar attempt with respect to the twelve minor prophets; on the Harmony. of the Gospels; a Historical View of the English Translations of the Bible (8vo.); on our Lord's Conduct as a divino Teacher; a Review of the chief Diliculties in the Gospel Account of the Resurrection of our Lord, and on the Duration of our Lord's Ministry. His death took place in 1800.

New commen. -–, a practical philosopher, distinguished for his successful efforts towards the improvement of the steam-engine. He was a locksmith at Dartmouth, in Devoushire, towards the close of the seventeenth century; and notwithstanding his humble situation, he engaged in scientific researches, and carried on a correspondence with his celebrated; attention excited by the schemes and observations of the marquis of Worcester, thos French philosopher Papin, and by captain Savacy's proposal to employ the power of strum in draming the mines of window-glass, plate-glass; bottles decan- a vacuum below the piston of a steam-ters, dribking-glasses, e.c. The manu- engine, after it had been raised by the ex-factories of wrought from the considerable. pansive force of the clashe value, which

he effected by the injection of cold water to condense the vapor. Thus an important step towards the construction of the very powerful instrument in question, ap-pears to have been owing to the ingenuity of Newcommen, who, in conjunction with captain Sayney and Switzer, took out a-patent for the invention. To Wart, of Glasgow, and afterwards of Birmingham, the world is indebted for the extraordinary advances towards perfection, subsequently made in the construction of the steam-cugine.

NEW ENGLAND. [A few general remarks were made on this subject under the head of England, New: but we have thought that a more detailed account might be agreeable to our readers.] In 1606, the portion of North America (q.v.) lying between the 34th and 45th degrees of latitude was divided by James I into two parts, called North and South Virginia, and granted to two companies. The London company were authorized to make settlements any where between 31° and 41° (see Firginia), and the Plymouth company received the same privilege in regard to the country between 285 and 45°. In 1614, captain Smith (q. v.), having examined the coasts of North Virginia, made a map of the country, and presented it to prince Charles, who changed the name to New England. In 1620, a new patent was granted to the · Plymouth company, comprehending that part of the country lying between 40° and 48° from N. to S., and extending throughout the main land, from sea to sea, under the name of New England in Arterica. This name has, ever since, continued to be appropriated to the country lying east of New York; and although it has never formed a political whole, yet, as the most of the colonies which were planted in it, were founded on the same principles of government, by men of similar political and religious views and character, and bave ever been closely associated with each other, and in many respects differed, and still differ, from the other colonies and states, in their institutions and internal corganization, we have thought it best to give a connected view of their history, under this general head. The goographical and statistical details will be found under the appropriate heads. The govcriments of the New England colonies were charter soveruments, while those of (of which they both were members), a the other colonies were royal or proprieta- grant of the territory lying between the ry; the government and ownership of the rivers Merrimac, and Kennebec. The

crown or proprietors, or the government was vested in the former, while the property of the colony was in the latter. . Tho New England colonists were Puritans (q. v.) -a party which no less strengonsly defended civil than religious liberty; and the events of the middle of the seventeenth century brought out a large miniber of republicans to join them. The carly and general provision for common education, in New England, was another, peculiarity of that part of the country, In ten years after the settlement of Massachusetts Bay, Harvard college was established. In 1647, the legislature of that province passed a law, requiring every town with 50 families to provide a school; and a similar law was adopted in Connecticut, in 1660. Provisions of the same nature were made in New Haven and Plymouth. These laws laid the foundation of the New England system of free schools. The organization of the church government is entirely democratical, and the municipal system is, in many respects, poculia.

The first settlements on the coast of Maine were among the earliest in New Ungland. Martin Pring, an English navigator, visited its shores in the years 1603 and 1606, and obtained some knowledge of its rivers and bays, and of the interior of the country, which he communicated to the pairons of American discovery and ; colonization. The Plymouth company were, in consequence, led to attempt a settlement at the mouth of the Kennebec, in 1607, which, however, proved abortive, from the 6c surrence of accidental circumstances of an unfavorable character. One of the most zealous supporters of this enterprise, sir Ferdinando Gorges, urged . his associates to repeat the experiment, but without success!, "Finding," says ite, "I could no longer be seconded by others, I became an owner of a ship myself, fit for that employment, and, under color of fishing and trade, I got a master and company for her, to which I sent Vines and others, my own servants, with their pro-"visions, for trade and discovery, appointing them to leave the ship and the ship's company to follow their business in the usual place." After continuing this private course of discovery several 'years, Gorges, conjointly with Mason, in 1622, obtained from the council of Plymouth country was insthe colonists, while, in the next year, in connexion with other adven-other colonies, they were both in the turess, they sent over a number of colo-

nists, who commenced the settlements at improbable, however, that this commisthe mouth of the Pascatagua. Several patents of inferior extent, comprised within the limits of Gorges and Meson's grant. were issued by the council a few years after. Of these, two were situated at the mouth of Saco river, in 1630, where a permanent colony was planted the same. year, under the direction of Richard Vines. one of the patentees, and a former agent of Gorge's. The following year, a tract, comprehending the peninsula on which the flourishing town of Portland now stantis, was conveyed, by the council, to two merchanis of Plymouth (Eng.), who estab-lished a trading-house on an island near Portland harbor, and promoted the settlement of the neighboring censt. The colonists came chirfly from the south-west of England, and were accompanied by clergymen of the established church; whence the settlements found little favor in the eyes of the Massachusetts planters. Farther eastward, without the limits of Gorges, was the Pernaquid palent, issued in 1631, to several persons belonging to Bristol, one of whom was the mayor of that city. This tract, lying about 30 miles east of the Kennebec, had been the subject of an Indian conveyance in 1625, at which date its settlement was commenced. Pemaquid (now Bristol) must be regarded, therefore, as the oldest permanent settlement in Maine. In 1035, the council conveyed to Gorges a separate title to the portion of the former grant east of the Pascataqua, baving previously confirmed Mason in the possession of the western pare row whom it had received the name of New Hampshire. Gorges, in like namner, conferred the name of New Somersetshire on his grant, in compliment to athe county of his birth, and took immediare measures for organizing a govern-, ment. Capitain William Gorges campe wover for this purpose, with commissions to. s several grantlemen resident in the province. seven of whom, assembled at Sice, March 25, 1000, received their the initialitate an acknowledgment of the proprietor's juristhe bearing of cases in dispute; besides exercising a cognizance of criminal offences. For some reason, there appears not to have been a perfect acquiescence on the part of all the people under this carly administration; for, the following

sion resulted from the artful and falserepresentations of a malecontent, who had gone to England with complaints of the commissioners, and returned with this order, which the Massachusetts magistrates wisely disregarded. On obtaining a royal charter, continuing the grant of the council, and conferring the powers of lord palatine, as exercised by the bishopof Durham, upon himself, Gorges appointed a new board of counsellors for the government of his province, the name of which was now, changed to Maine. The first general court, under this charter, was held at Saco, June 25, 1640, at which tho inhabitants of the several plantations, being summoned, appeared, and renewed their oath of allegiance to the lord proprietor. The arrival of Thomas Gorges, Esq., with the commission of governor, occurred the same year. He presided at the second sersion of the court, in September, and took up his residence at the city of Gorgeens (now the town of York), of which he was likewise meyor. In the mean time, the progress of the civil war in Fagland was becoming ruinous to those who adhered to the side of the crown; and sig Ferdinando, in common with other royalists, found himself unable to breast the storm. Being taken prisoner, on the surrender of Bristol to the parliamentary forces, in 1645, he soon after died, at an advanced age, leaving his estate to his The governor son, John Gorges, Esq. returned to England in 1643, and was succedded in his office by Mr. Vines, during whose brief administration a title to a large portion of the province, called the Plough Patent, which had been granted by the council of Plymouth, in 1630, was revived by colonel Alexander Righy, a member of the long-parliament, from Lancashire, who had purchased it from the patentees. This claim embraced at tract 40 miles square, in the most settled: part of the province, and respected not a the towns comprehended within its limits. . Colonel Righy sent over, as his agent and deputy-governor, Mr. Geo. Cleaves, who had been long a resident in the province, and was probably the cause of the resuscitation of this obsolete title. Cleaves summoned a court at Casco (now Portland), in 1644, in the name of Rigby, as; "lord proprietor and president of the provyear, governor Winthrop and others, of "lord proprietor and president of the provential special section of the province of the ince of Lygonia," as the Plough Patent ;

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Mr. Vines, yielding to the storin, and gaining no intelligence from Gorges, resignet his commission, and removed, with the sum of £1250. This transaction took his family, to the island of Barbadoes, to which great numbers of royalists flocked. elaims of Right were recognised by the commissioners for foreign plantations, in . England, and the government of Lygonia became regularly established. The small number of towns and plantations remaining within the limits of Maine; as now restricted, elected Edw. Godfrey, Esq., of Gorgenna, their governor; and, in 1650, fearing they should fall into the hands of the Puritan colonics, petitioned parliament to constitute them a distinct jurisdiction, "a part of the commonwealth of England, that they and their posterity might empy the . immunities and privileges of freeborn Englishmen," but without success. Thefrapprehensions were soon realized: in 1652, the colony of Massachusetts Bay laid claim to the greater part of Maine, under the pretence that it was embraced within the limits of their patent, and proceeded to exercise jurisdiction over the towns, notwithstanding the well-founded and manly protests of governor Godfrey. Lygonia. likewise, being left, by the death of Rigby, in a defenceless condition, was brought within the Massachusetts charter, although its towns were not all reduced to submission until 1658. The royal commissioners, who were sent to New England soon after the restoration of Charles II, visited Maine in the summer of 1665, and issued a proclamation, declaring the province to be under the protection and government of the king, and designating several gentlemen as magistrates for the administration of affairs, until the further pleasure of the crown should be known. Scarcely, however, had the commissioners left New England, before the authorities of Massachusetts, with the aid of a military force, resumed their sway in the province, to which the inhabitants were compelled to yield an unwilling submission. The legal proprietor, F. Gorges, Esq., a grandson of the original patentee, at length succeeded in obtaining a restitution of his title, by a formal adjudication at the palace of Whitehall, where agents appeared on the part of Massachusetts Bay, in obedience to a royal order; but, unwilling to renounce her hold upon the province, the colony had instructed her agents to purchase the title from Gorges, in case the decision was in his favor; and accordingly, contrary to the wielies of the infinition.

of the crown, the proprietor was induced to part with his title to the province for place March 15, 1677-8. After the purchase, instead of continuing possession at that period. Soon after (in 1646), the tunder the color of a right derived from their patent, the governor and council of Massachusetts Bay, by a proclamation addressed to the freeholders of the province of Maine, dated at York, March 17, 1679 -80, declared themselves to be the lawful assigns of sir F. Gorges, Kt., and, "to the end that the above-named province might be protected in the enjoyment of their just rights and privileges, according to the rules of his majesty's royal charter, granted unto the above-named sir F. Gorges, Kt.," proceeded to organize a provincial jurisdiction. The government established at that time was composed of a president, a deputy-president, an assistant, eight justices, and an elective general court, which doutinged to be exercised, with the exception of the period of Andros's administration over New England, until 1692, when, by the new charter of Massachusetts, Maine was constituted a county, with the name of York, or Yorkshire. This arrangement bisted, without any change, till 1760, when the counties of Cumberland and Lincoln were incorporated, and the county of York was reduced to nearly its present limits. After the independence of the colonies was established, Maine was styled a district, although its connexion with Massachusetts remained the same, until it was crected into an independent state, in 1820. The extent of the province of Co ges was probably about one third of the territory of the state, the other portions being derived to Massachusetts by the charter of 1692. The ancient settlement of Pemaquid (now Bristol), long regarded as the ultima Thule of New England, was almost the only post of importauce, cast of the Kennebee, before that The French province of Acadie, so indefinite in its original asserted limits, was finally restricted, on the west, to the river Pemaquid; but even this reduced demand of territory was resisted by the English government; and, in the year 1661, the country, from Pennaguid to the river St. Croix was included in the well-known patent of Charles II to his brother, the duke of York (afterwards James II.) This part of Maine was thus united, in its government, with New York, and received the name of the county of Cornwall. A strong fortress was built ut-Pemaquid, for the protection of the inhaband not without exciting the displeasure itunts; and considerable numbers of emigrants, encouraged by the governors of civil body politic, for our better ordering, New York, established themselves on different points of the coast. The settle-ends aforesaid; and, by virtue hercof, to ments were chiefly about the river Sheenscot; but the ravages of the Indians prevented their growth, and finally occasioned the total dispersion of the inhabitants, for a considerable period. The duke of York's title ceased on his dethronement as king of England; and, as already stated, the charter of king William vested the territory in Massachusetts. After the termination of Indian bostilities, and the reduction of Canada, these lands were again taken up by numerous settlers, and, from that period to the present, this portion of Maine has been constantly advancing in improvement and cultivation, notwithstanding the perplexities and serious difficulties, occasioned, for a long time, by conflicting and unsettled fitles to the right of the soil. Such is a brief view of the civil history of Maine, concerning which the little information to be gleaned from writers on New England, is lamentably defective in accuracy, as well as amount. A personal and careful inspection of unpublished records and documents, enables the writer to speak of this subject with contidence,

The next colony was that of Plymouth, founded by a small body of Puritans, who had left England in 1605, on account of the persecutions to which they were there exposed, and taken refuge in Holland. During a residence of 11 years in Léyden, their number was increased · by other emigrants from England; and, findiar themselves subject to many inconveniences, on account of their ignorance of the language and aversion to the manners of the Dutch, they determined to remove to America. They accordingly obtained a patent from the Fouth Virginia company, and chartered two small vessels, in one of which they sailed from Delfthaven July 22, 1620, and joined the other at Southampton. After being repeatedly obliged to put in to kind, on account of the leaky condition of one of the vessels, they finally set sail from Plymouth (Septemher C) with only one vessel, the Mayflower, and, November 9, made the land at cape Cod. Finding that they were without the limits of the South Virginia parent, destinate of any right to the soil, and without any powers of government, they entered into a voluntary compact, as follows: "We, &c., do, by these pres-ents, solemnly and mutually, in the presence of God and of one another, covenant pany were authorized to elect a governor. " and combine ourselves together, into a and 18 assistants annually, and required

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cuact, constitute and frame such just and equal laws, ordinances, acts, constitutions and offices, from time to time, as shall be thought most meet and convenient, for the general good of the colony; unto which we promise all due submission and obedience. This is the earliest American constitution, and is dated Nov. 11, 1620, and signed by 41 persons. The whole company, including women and children, amounted to 104. They then proceeded to examine the coast, and finally determined to settle at a place to which they gave the name of Plymouth. (q.v.) They landed, here December 11 (O. S.). Cast upon an unknown shore, in a severe climate, at an inclement season; exhausted. by the fatigues of the sea, and suffering from a want of suitable provisions and shelter, nearly one half of their number died within four months after their laud-At times, only six or seven were fit for dety. Before they left England, they had formed a connexion with certain merchants, for seven years, by which they were bound to carry on all their commerce in common. At the end of seven years, the shares were bought in by the colonists, and the joint property divided among them. The government was administered by a governor, chosen annually by the people, and seven persons, called assistants, elected in the same way. It was, at first, a pure democracy, and the whole body of the people often met and decided upon executive as well as legislative afficirs. But, in 1639, a house of representatives was established. The political affairs of this colony are connected with those of the others, particularly of Massachusetts, with which it was incorporated in 1792.

The colony of Massachusetts Bay, which, as we have already seen, swallowed up several of the other colonies, and from which those of Connecticut and Providence also originated, always acted a leading part in New England. In 1628, the Plymouth company granted to a number of individuals that part of New England lying three miles south of Charles river, and the same distance north of the Merrimac, and extending from the Atlantic to: the South sea. Powers of government were given them the next year, by Charles I, hs ? the governor and company of Massachu-setts Bay in New England. The com-

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bold four Grent and General Cours chasens, on account of his religious opinhave and regulations for the government of the colony. A settlemont was unined. onely made, under this charter, he Salem, persons, also banished from Mussachusetts (q.y.), in 1626; and in 1636, 1500 pels for religious differences, purchased of the was arrived at Charlestown, who soon after senied at Boston, and in the vicinity. These hast named andividuals received pornission from the company received pornission from the company to transfer the charter and government to Nov. Englished; and thus what that been intended merely as the organization of a company, became the constitution of a maje. The government was at first, infinitely the government and assistants; but, in 1634, the government and assistants; but, in 1634, the people that the General Court (the name which the two legislative bouses will bear in Massachuseus) alone had powor to make laws, inquese taxes, and appoint officers This, therefore, became a significanceutal part of the constitution. The assistants and the deputies of the people of first met in the spine room, and the lormer claimed a negative on the acts of the latter. The disputes to which this subject gave rise were not sealed until 1611, when it was determined that the legislature should consist of two separate bodies, each having a negative on the other. · Although the charter gave no judicial authorny, this power was assumed, and cours of justice created, and, in criminal cases, the Mosaic daw was builly folloved.

The first colonists of Connecticut went from Massachusetts in 1615, and were governed by persons called magistral s. who were empowered, for that purpose, by the legislature of Massachuseus. 1 being out of the limits of the Massay chafter, they established (163) constitution for themselves. The colony their constituted of 600 persons, in the three towns of Hartford, Wether field and Windson. The substance of this constitution was contained in the charter granted by Charles II, in 1662, and continued, with-Hamental law of the state autil 1818. New Hayan which now constitutes a part of ... preparent. This colony was included to Seancations by the thanks of 1002.

To 1634 Ropel Williams (a) 10, a min-

annually, which were empowated to make fons. With a few followers he fixed himself at Providence. A few years after-wards, Mrs. Hutchinson, and some other Indians (1633) the island now called Rhode Island (q. v.); and thus two new communities, with distinct governments, were formed. The members of both of them made civil compacts among thomselves, in the same manner as had been done by other colonies. In 1644, Williams obtained a charter of incorporation, from the commissioners of plantations (created in 1643), for the inhabitants of the towns of Newport, Portsmouth and Providence, under the name of the Providence Plantations, with full power to rule themselves, under such a form of government as they should adopt. In 1663, they received a new charter from Charles II. In 1643, the colonies of Massachusetts, New Plymouth, Connecticut and New Haven formed a confederacy, under the name of the United Colonies of New England, which lasted about 40 years, until they were deprived of their charters by James H. By the articles of confederation, they entered into a perpennal league of friendship and unity, for offence and defence, each colony retaining its own government and jurisdiction, in domestic concerns. Two commissioners of each of the confederates formed a board for managing the common affairs of the confoderacy. During the ascendency of the parliamentary party and the protectorate of Cromvell, the New England colonies were particularly favored; but, on the restoration, they began to be viewed with an evil eye, and, in 1664, royal commissioners were appointed to visit them, and chear and decide all complaints and appeals, civil, criminal and military, according to their discretion. But the colonies were, as lord Clarendon expressed it, already hardened into republics, and the conjuissioners found themselves unable toric any material alteration, to be the funde to execute their powers. The crown still persevered in its arbitrary measures, and, in the last years of Charles 11 and the first Connecticut was settled in 1000, by a colonial charters directed; and them more computers of Particus, who, having no colonial charters directed; and them with the served into the king's lands. Signification of government, and no right to the served into the king's lands. Signification of government and served into the land of the lands of t of James II (1684-1687), declared the colonial charters furfitted, and their libers. he land, except by agreements into a general of New Engione (1991), which is a general of New Engione (1991), which is a company of a structions to allow no principal press. The collection of a first point of the collection of a first point of the collection of th body of troops, to soize the charter of Louterflow: The terminist convened, and his claims: was displayed out into the form.

where they met to confer with Andros: the conference was prolonged till night, when the people rushed into the room, extinguished the lights, and secreted the charter in an oak tree, which is still shown in Hartford. (q. v.) The 'inhaliitants, in many places, refused to pay the taxes; and, some runor of the landing of the prince of Orange in England Isce William III) having reached America, the people of Boston (April 18, 1689) and neighborhood appeared in arms, seized the governor and the captain of a frigate in the barbor, compelled the castle to surrender, and thus effected a complete revo-Delegates from the towns soon Intion. after assembled, and voted to resume the government according to charter rights. Connecticut and Rhode Island resumed their charters; but although the people of Messachusetts petitioned for the restoration of theirs, their peation was refused; and, in 1692, a new one was granted, by which the appointment of the governor was vested in the crown. The colonies had been repeatedly involved in hostdities with the different Indean tribes; but the most destructive war took place in 1675 - 1676, when Metacom (Philip), the most formidable enemy they had met with, by his conning, his boldness and activity, Tormed an extensive combination of hitherto nosibe tribes, with the purpose of extirpating the English. His death in 1676, after several defeats, was a fatal blow to the power of the natives in New England. The wars between Eugland and France, from 1690 to 1713, subjected the closies to the attacks of the French then in possession of Canada, and there affies, the Indians, and, for nearly 25 years, a large portion of the inhabitants were in the field, or obliged to guard their possessions at home; their resources were diminished; the fields uncultivated; their villages, burnt, and their growth checked. After the restoration of peace, they had to contend with the restrictions imposed on their trade and manufactures, and constant attempts to encroach on their liberties, by the mother country. Yet the cheapness and plenty of land, the industry, activity, frugality and intelligence of the inhabitants, and the freedom of their constinutions of government, rapidly promoted their increase in wealth and numbers. The population, which, in 1700, was about 120,000, was nearly 400,000 in 1750. The seven years' war (1756-1763), which terminated in the destruction of the Freuch power in America, and secured to Great Britain all the country east of the 21

Mississippi, was an important era in the history of the colonies. From that time began a new system of colonial policy in England, which led to the American revolution. As all of the colonies were equally interested in these events, and became more closely united in their common opposition to the mother country, it is unnecessary to give, here, a detailed account of the measures adopted, and the events which casued from them, since they would be little more than a repetition of what is given in the article United States: (For the history of Vermont, see Vermont, and New York). The six New England states have, by the census of 1850, a population of 1.951,611.

New Forter; a large tract in England, in Hampshire, about 50 miles in circuit, which contained many populous towns and villages, and 36 mother churches, till it was laid waste and furned into a forof by William the Conqueror. King Heary VIIIth built some castles in it, and it has now several towns and villages. It is smared in that part of Hampshire which is bounded east by Southampion river, and south by the British chan-This is the only forest which belongs to the crown, of which the origin is known.

Arwrot Spacen; an island in the North Atlanta: ocean, separated from the contiment of North America by the straits of Belle Isle and the gulf of St. Lawrence, first discovered by Schastian Cabox in 1497. It is of a triangular form, 380 miles in length, and varying in breadth from 50 to 200 miles, and, without including the windings of the coast, is 760 miles in circumference; Jon. 52' to 59' 49' W.; lat. 46° 45' to 51' 46' N. The head-lands, as well as the general line of the sea-coast, are high and bold, and form numerous secure and commodious harbors. Of the interior little is known, since, with one or two exceptions, it has never been traversed except by the aborigines of the country. Several high hills, supposed to be near the centre of the island, may be discerned from the sea; but the inland country is represented as generally level. It is covered with heath, and a species of dwarf fir and spruce, except on the margin of the rivers and lakes, where various trees grow to a considerable height. island is on all sides indented by spacious bays, which extend far up into the country, and upon the harbors and coves of which are the stations and settlements whence the fisheries are carried on. most extensive are White, Notre Dame,

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· Bona Vista, Trinity, Conception, St. Mary, Placentia, Fortune and St. George's bays, A large section of the sea-coast, comprehending the northern end and western side, has been ceded to the French, who also possess the small islands of St. Pierre and Miquelon, which are situated in the entrance of Fortune bay. The climate of Newfoundland is generally represented as excessively severe, but this is by no means true. The winter usually commences about the middle of December, and the weather continues cold until March, but not so severe as in Canada and other portions of the main land several degrees farther south. In the spring, large masses of ice are brought by the currents from the north seas, and frequently block up the bays and harbors; and in the midst of summer, icchergs, or motatains of ice, may occessionally be seen. The climate is, in consequence, very variable, and vegetation schlora commences before the month of May. Such is its rapidity, however, that many kinds of vegetables are produced in perfection; and, although agriculture has, until of late years, been nanos), othely neglected, yet experiments have proved that the soil is capable of enhivation, and that the climate will mature eats, harby, wheat, and almost every thing necessary for the subsistence of the inhabitants. For their principal supplies of corn and other provisions, however, they are, and must, in a great measure, remain dependent upon other countries. This isle at has always been famous for the cod disheres which have been carried on upon its slares and banks. There, were first presecuted by merchants and adventurers from the West of England, who used to resort to Newfoundland in the spring, by up their ships, presue the fishery until the season was ended, and then return to their homes upon the anproach of wirter. The value and importance of these fisheries induced these (d) venturers to seek for a monopoly; and they accordingly procured several reis of parliament to be passed, by which their interests were exclusively protected. The object of these acis was, mainly, to preventany permanent settlement being made upon the coast, the whole of which was dedicated to the purposes of the fishery, and the cultivation of the soil or cutting of wood within six miles of the sea, was expressly prohibited. Notwithstanding these statutes, however, settlements were made, which have progressively increased to such an extent that the island can now boast of a resident complation of 80,000 souls. The

British government, seeing the impolicy as well as the impossibility, of preventing settlements, have repealed all the old prohibitory statutes, and directed the lands to be granted. The cod fishery is now principally carried on by the planters and coasters, in small beats from the shere; though many larger vessels are still employed upon the bank and along the coast of Labrador, which is a dependency of the government of Newfoundland. This tishery commences in April or May, and continues until the end of October. The number of inhabitants engaged in it is about 25,000. The fishery carried on by the French is transitory. The fishing ships from Brest, St. Malocs, and other ports, rendezvous at St. Pierres, or at Croque (a station on the east side of Newfoundland), and, after the end of the senson, return to France for the winter. The cod tishery has much declined, but another, now of much greater value, has lately engaged the attention of the inhabitants; this is the seal fishery .- The fields of ice, which are annually swept by the emrents from the Polet sees, we carried along the castern coast of the island, and bring with them myrads of scale. The vessels ongaged in this tishery are from 50 to 200 tons burthen, carrying from 15 to 16 men. They are fitted out from St. Jeha's, Harbor S. an. Carbon ar, and ether ports, about the first of March, and proceed to sea until th y meet the ice. The vessels are then forced as far as possible into the fields, and the crews disperse on all sides in search of the scals, which are very nuls are valuable only for the fat and Tkin, which are stripped off from the body with great facility. There are several About 500 sail of vessels and species. 10,000 men are engaged in this fishery, which is over by the end of April. Newfoundland has not yet any local legislature, nor have the people any voice in the government. The laws and statutes of England extend to the island, and the executive government is vested in a governor and conneil. There are courts of criminal and civil jurisdiction, and justice is administered by a chief judge and three assistant judges. The aborigines of the country are now supposed to be extinct. They were generally called Red Indians by the Europeans, from their custom of painting their faces; but they denominated themselves Booths, or the Beothic They are represented as having no resemblance in their appearance, manners, customs or language, to any of the

North American tribes, and they have been supposed to be the descendants of some ancient Scandinavian colony. They were a very harmless, inartificial race, who subsisted upon the deer and other animals which they entrapped in pits and starcs. They were formerly very numerous, but their dread of the settlers drove them from the sea-coast into the interior, where they were often unable to procure food. A few years ago, five or six stragglers came to one of the settlements in extreme want, representing themselves as the only remnant of the race. The account they gave was, that, owing to excessive cold and the depth of the snow, they and their brethren were prevented from procuring food, and had set out from their encannment in the hope of reaching the corst, but that the rest had perished by the way. Two of this remnant, only, hyed to reach St. John's, where the last died in 1828, Since then, the strictest search has been made, but not a trace of the tribe has been discovered. The trade and commerce of Newtoundland is extensive and At supplies Portugal, Spain, and the Mediterrenean, with fish, and its oit is shinned to Ungland. The principal towns are St. John's, Harbor Feau, Carbonear, Placentia and Forryland. The inhabitants may be reckoned at \$0,000, of which one third are Catholics, and the remainder Protestants of various denominations. St. John's, the capital of Newfoundland, on a bay of the same name, is in lon, 525 29° W.; lat, 47° 32° N.; population, about 12,000. It has one of the lordors in the island, with from ten to seventeen fathoms of water, up to King's what, a mile from the mouth of the harbor. The U-b caught on the banks are diled and packed here for Europe. The streets are narrow and dirty, and the buildings generally mean. The roveroment house is a large and handsome There is a Roman Catholic building. chapel, an English Episcopal church, Wesleyan chapel and Independent meeting-house. St. John's is the residence of all the public officers. About 500 troops are generally stationed here. This town has suffered greatly by fires. In February, 1816, a conflagration occasioned great loss: in 1817, November 7, 135 buildings were burned; property destroyed estimated at £500,000; on the 21st of the same month was another great fire; and, m 1818, August 21, a fire again broke out, by which great loss was incurred.

New Georgia. (See North America.) New Grenada. (See Grenada, New.)

New Guinea; next to New Holland, the largest island of Australia (q. v.); between 0° 15' and 10° 8, lat.; and 131° 20' and 149° 20 F. lon.; square miles, 275,600; population, 500,000. It is separated from New Holland on the south by Endeavor and Torrey's straits, from New Britain on the east by Dampier's straits, and from Gilolo by Pio's straits. It was discovered by the Spaniards, in 1528 and 1543, but is still hule known. Forrest merely unchored on the northern coast, and Cook landed on the southern shore. Dampier, Carteret, Bougaarville, D'Untreeasteaux, only visited some of the neighboring islands. Le Maire and Schonter, who sailed along the greatest part of the north coast, had several inserviews with the natives of the surrounding islands, but did not land mon the main island. On the western coast he several small islands, which are comes ted with the Moluceas. The coasts appear to be high and mountainors. In the interior there are some long mountains, covered with perpetual snow and volca-In some parts they rise above each other in three successive ranges. Swine, dogs, bards of paradise, parrols, sea flowl, ash, ginger, cloves, natmeps, cocoo, b tel, sago, bread-fruit, bamboo, &cases found here. The inhabitants are a negro variety; they have projecting lips, a flat, broad nose, a large month, large eyes, shining black hair, and a black, rough skin; they are strongly built, and go nearly naked, having only a thin suit, made of the fibres of the cocoa mor, round their leins. The habitations on the coast are built on piles, with a sort of a bridge, extending above high-water mark; a dwelling of this kind is occupied by revcold families. The furniture consists of some mats, an earthen pot, a hearth, & c. The men appear to be employed only in war and the chase. Cook observed, in one part of the country, a peculiar weapon used by the inhabitants; it was a short clab, which they swing on both sides; fire and smoke were seen at the same moment, as on the discharge of a musket; but there was no report, and the appearance was of short duration. The Chinese, who trade with the inhabitants, appear to have introduced some of the rites of the religion of Fo among them. Voyagers have observed three varieties of inhabitants, the Papuas (negroes), Haraforas, who are said to live on trees in the interior, and the Badshoos or Oran Badshoos, a wandering tribe of fishermen.

New Hydesides, one of the United States, is situated between 12° 41', and 45°

11' north latitude, and between 70° 40' and 72° 23' west longitude from Greenwich. Its extreme length, from north to south, is 168 miles; its greatest breadth is ninety miles. North of latitude 42°, the state decreases in width, and at the northern extremity it is only nineteen miles wide. New Hampshire is bounded on the north by the highlands between Lower Canada and the U. States; on the west by the western bank of Connecticut river, from its northerly source to the south point of Hinsdale, below the entrance of Ashnelot river; south by Massachusetts; east by the Atlantic, a distance of eighteen miles, and by the state of Maine. Its area is 9491 miles, or 6,074,240 acres, including about 110,000 acres of water. This state is divided into eight counties. Near the sea-coast, the land is low and level, and the shore is mostly a sandy beach, bordered by salt-marshes. At the distance of thirty or forty miles back from the sea, the country rises into hills, and often into Between the Merrimack and mountains. the Connecticut, many considerable mountains are found, as the Monadnock, in Dublin; Sunapec, in Fishersfield; Kearsarge, in Warner; Carr's mountain, in Warren; and the Mooschillock, in Coventry. But the most elegated mountains in this state, and the highest on this side the Mississippi, are the White mountains. The soil of New Hampshire is generally fertile, though it is probably inferior to that of some of the other northern states. The best lands are those on the borders of the rivers, which are annually overflow-The hills are generally of stony and moist land, and afford excellent pasturage. There are no extensive barrens, and most of the land is capable of cultivation. The high ridge of mountains which divides the waters of the Councetient from those of the Merrimack, is composed of the older primitive rocks. Granite predominates at the northern and more elevated part of the ridge; mica slate is more abundant in the southern part, and forms the Grand Monadnock and several other high elevations. A beautiful, fine-grained granite occurs in many parts of the state; this affords an admirable building stone, and great quantities are transported to Boston. ward of the great ridge, inica slate, gueiss and green stone are found. Steatite, or soapstone, of good quality, is found at Orford and Francestown; and primitive limestone abounds in several places. Iron ore, of excellent quality, is found at Franconia, and copper ore has been discovered

lead is found at Bristol and some other places, in large quantities, and of good quality. These are the only minerals that have been found in such quantities as to be much regarded. The largest collection of waters in New Hampshire is take Winnipiscogce. Besides this are Squam, Ossipee, Newfound, Sunapee, and Spafford's lakes, and lake Connecticut, in the most northern part of the state. A part of lake Umbagog is in this state, and a part in Maine. Five of the largest rivers in New England have their principal sources in New Hampshire, viz. the Connecticut, Merrimack, Androscoggin, Saco, and Pas-cataqua. "The state is remarkably well watered, and the water is generally of the purest quality. The population of New Hampshire in 1810 was 214,160; in 1820, 214.161; in 1830, 269,533. By far the greater part of the inhabitants are engaged in agriculture. The principal articles of produce are beef, pork, mutton, butter, cheese, wheat, rye, Indian corn, oars, barley, pulse and tlax. The state is admirably adapted for grazing. Apples are very extensively cubivated, but other kinds of fruit are not abundant. Dover, Exeter, Peterborough, Francouia, Pembroke, and Keene, have considerable manufacturing establishments. There are no large towns in New Hampshire. Portsmouth is the most populous, and Concord is the seat of government. There are numerous thriving and beautiful yillages. The common schools are well supported, and flourishing academies are established in many towns. Dartmouth college is at Hanover. The principal eligious denominations are Congregationalists, Baptists, and Methodists. The chinate is subject to the extremes of heat and cold, and to great and sudden changes, The air is generally pure and salabrious, and the state is remarkable for the longevity of its inhabit-Morning and evening tires are frcquently needed, as early as the first of September, and as late as the last of May. Cattle are housed about the first of November; and, in the course of this month, the earth and rivers usually become frozon, and covered with snow. The open fields are commonly cleared of snow in April. New Hampshire was discovered by captain John Smith, an English navigator, in 1614. Its name was given by captain John Mason, the original patentee. In the earliest grant made to Mason and Gorges, in 1622, it is styled Luconia; and, in some of the earliest histories, it is conia, and copper ore has been discovered called Captain Mason's Palent, and Pastathe same place. Plumbago, or black cataqua. The first settlements were made

at Dover and Portsmouth, in 1623. In 162), reverend John Wheelwright purchased of the Indians the country between the Merrimack and the Pascataqua from the ocean back about fifty miles. From the year 1641 to 1679, all the settlements in this state were united with the colony of Massachusetts, and belonged to the county of Norfolk. In 1679, New Hannshire was made a separate province by Charles 11. From 1689 to 1692, it was again united to Massachusetts; and also from 1702 to 1741. From 1600 to 1702, it was united with Massachusetts and New York. Benning Wentworth was appointed governor in 1741. A temporary government was established during the war of the revolution. A new constitution was established in 1784; and this, as altered in 1792, is the present constitution of the state. (For this, see article Constitutions.

For further information, see New England.) New Haves, city; a scaport, and scmimetropolis of Connecticut, in New Haven county, thirty-five miles south-south-west from Hartford, seventy-six north-east from New York, 134 west-south-west from Boston, and 301 from Washington; Ion. 72' 57' W.; lat. 41° 18' N.; population in 1810, 5772; in 1820, 7147; in 1831, 10,678. The city lies round the head of a bay that sets up about four miles north of Long Island sound, and is situated on a large and beautiful plain, which is bordered on the north partly by eminences called East and Hest Rock, presenting bold and almost perpendicular columns of naked trap rock, 350 to 370 feet high. smar rivers bound the city, one on the cast and the other on the west. It was incorporated as a city in 1784; three miles long from east to west, and two miles wide. It is regularly laid out, and consists of two parts, old and new towns. The eld town was laid out in a large square, and is divided into several smaller squares. The central square is intersected by a beautiful street, overspread by chos. On this street are erected three handsome churches. Near the centre of the west . section of this square is a new state-house, built after the model of the Parthenon. It has a commanding appearance; and its proportions, and the style of its workmanship, rank it with the best American buildings. The city contains three handsome churches for Congregationalists; two beautiful Gothic editices, of stone, for Episcopalians; one for Baptists, one for Method-. There are ists, and one for Africans. also a jail, an alms-house, a custom-house, a museum, two banks, two insurance-21 *

offices, an institution for popular lectures. opened the present year (1831), and six printing-offices, from which are issued five weekly newspapers, and three other periodicals. The houses of New Haven are . mostly of wood, not expensive, but handsome and convenient; and the city is one of the most pleasant in the U. States. The of the most pleasant in the U. States. public square and principal streets are finely ornamented with trees; and a great part of the houses have gardens filled with fruit-frees, which give to the city a rural and delightful appearance. The harbor is well defended from winds, but is shallow, and gradually filling up with mud: it has about seven feet on the bar at low The maritime commerce of New Haven is greater than that of any other town in Connecticut. Both the foreign and the coasting trade are considerable, and packets and steam-boats ply regularly between this city and New York. The Indian name of New Haven was Quinipiack. , It was first settled by the English, in 1638. It was the capital of the colony of New Haven, which continued distinct 5 from the colony of Connecticut till 1665. (See New England.) The legislature of the state meets afternately here and at Hartford. Vale college, one of the most distinguished literary institutions in America, is established at New Haven. It was incorporated in 1701; was originally placed at Killingworth; in 1707, removed . to Saybrook; in 1717, to New Haven. There are ten college buildings; four halls, 100 feet by 40, and four stories . high, containing thirty-two rooms each for students; a new and convenient chanel, one story of which is appropriated to the theological school, and another to the college library; two other buildings, containing rooms for recitations, lectures and Hararies; a dining-hall, of stone, with an clegant apartment above for the mineralogical cabingt and lectures; a chemical laboratory; and the medical college, a large edifice, of stone. The college library contains 9500 volumes, and the students' libraries 9000. The philosophical and chemical apparatus are very good. . The cabinet of minerals is the most valuable in the U. States. It contains above 16,000 specimens. The number of instructors in the academical department of , Yale college is twenty; the number of alumni, 4505; the number of students, without including medical, theological and law students, 331. Commencement is held on the third-Wednesday in August. There are three vacations, viz. from commencement, six weeks; from the second ٠.

Wednesday in January, two weeks; and dlesex, Burlington, Monmouth, Gloucester, from the first Wednesday in May, four weeks. In 1822, a theological school was established in connexion with this college, The number of students at present is 42: and there are three professors. There is a medical school, the lectures of which begin six weeks after the college comne neement. It has 6 professors and 48 There is also a law school, surfents. having two professors and forty-four students. These numbers are all given for the year 1831. The city is also celebrated for the number of its boarding schools and smaller seminaries for the young of both SUAS. The average number of persons who are here from abroad for the purpose of education is supposed to be rarely be-Blue laws is a name low a thousand. given to the quaint regulations of the early government of New Haven plantation, when the public authorities kept a sharp watch over the deportment of the good people of the colony, and punished all breaches of good manners and good morals, often with a ludicrous formality. Some account of them is given in a little book, cited at the close of the article. Connecticut.

New Henrious; a cluster of islands in the South Pacific ocean, first discovered by Quiros, in the year 1506, who supposed them to be a southern continent, and called them Tierra Australia del Espirita Santo. Bougainville, who explored them in 1768, called them the Archipelago of the Greet Cyclades. Cook visited them in 1773, and gave them the name of New Helicides. They are in general mountainous, and abound in wood and water." Their principal productions are bread-fruit, cocoa-nots and plantains, yards and sugarcanes. The inhabitants appear civil and hospitable, and are of different races. Lon. 166° 40′ to 170° 21′ E.; lat. 14° 30′ to 20° 5′ S.

NEW JERSEY is one of the thirteen original states of the American Union; bounded on the north by New York, on he cast by New York and the Atlantic cean, on the south by the ocean, and on west by the states of Delaware and Fennsylvania. The Hudson river divides It from New York on the east, and on the west are the Delaware river and bay. The length is 163 miles, and the breadth 52 miles; between lat. 35° 17′ and 41° 21′ N., and lon. 75° 30' and 73° 53' W. The area in square miles is 7490. The census of 1830 shows a population of 320,779, and an increase of 43,204 since 1820. The territory is divided into fourteen counties-Bergen, Morris, Sussey, Warren, Essex, Somerset, Hunterdon, Mid-

Salem, Cumberland and Cape May, and these are subdivided into townships. The face of the country presents every variety; from the north to the south is found a succession of mountains, hills, heights and plains, each occupying a distinct and well defined region. The southern section of the state, from the Rocky hill ridge, in the county of Middlesex, is an alluvial formation, of which the soil and face of the country, trunks of trees, oyster-shells, and various marine productions, found at great depths, in wells and other excavations, furnish satisfactory proof, strengthened by the fact that, in this part of the state, the hills face the north, are precipitous, and lie on the southerly side of the valleys, from which, on the northerly side, the land rises in a gentle slope, evidently caused by the breaking and subsiding of the waves, bearing in their force the sands of the ocean. The principal internal waters are Second river, Hackensack, Passaic, Raritan, Musconeteong, Rancocus, Salem, Shrewsbury, Tom's river, Great Eggharbor, Cohanzey and Maurice river. Raritan bay is a spacious estuary on the eastern coast, affording a ready access, at ad seasons, from the ocean to Perth Amboy, the chicf seaport town of the state, and po-sessing, for this purpose, peculiar and admirable advantages, which have not yet been adequately improved, from the proxinity of the commercial emporium of the nation. The Swedes early made settlements in the county of Salem, where some of their descendants still remain, and the names of places given by them are, in some instances, retained. Dutch emigrants spread at an early period from New York, over the county of Bergen. The province was greated by king Charles II to his brother James, duke of York, by charter, dated in 1661; and being by the latter speedily granted to subordinate proprictors, the settlements of the English rapidly extended. It was, in 1676, set off into two great divisions-Fast Jersey and West Jersey; each belonging to different proprietors, who held both the right of soil and the powers of government, the datter of which were exercised by governors appointed by the proprietors, and representatives chosen by the people. The proprietary government continued until the year 1702, when the powers of gov ermment were surrendered to queen Anne; *a*nd the colony remained a royal government until the declaration of independence, the governors being appointed by the crown, and the legislature chosen, as

before, by the people, but afterwards representing the whole community, and sitting alternately at Burlington and Perth Amboy, then the principal towns of the respective divisions. In the grants and concessions of, the proprietors, under which the colony was settled, the sound-· est and most liberal principles of civil and religious liberty are declared. These were sedulously cherished by the early colonists, and were, in many controversies with their governors, both proprietary and roval, maintained by the representatives of the people with great firmness, zeal and intchigence. A sincere attachment to the interests of the mother country was, nevertheless, felt and displayed on all occasions, and was practically manifested in the moneys expended and the blood shed in the expeditions to Canada, and on the borders of take Champlain, and was maintained until arbitrary exactions and unconstitutional oppression compelled the people, in common with the other colonies, to look to a separation. In the preparatory measures and conventions the aclegates of New Jersey were always found. The was among the earliest to resolve on independence, unquestionably the second to comply with the recommendation of the continental congress, and form for herself a constitution of government. One of the earliest members of the first confederation, she adopted promptly, and with peculiar manimity, the present constitution of the U. States. During the war of the revolution, her patriotism was eminent. Some of the most interesting scenes and of the most arduous conflicts of that per d, took place within her bounds. The enemy was repulsed at Monmouth and at Princeton, and the tide of the war was turned at Trenton. Her privations and sufferings were great, from having been long occupied by the rival armies and the seat of hostilities; and at the close she was found to have advanced largely beyond her proportion of the pecuniary expenditures of the contest.—The legislature is composed of two bodies, the legislative council and the general assembly; the former having fourteen members, one from each county; the latter, fifty members, the counties being represented by different numbers, from one to five. The governor is annually appointed, and, like most of the executive, judicial, and military officers, by the two houses in joint meeting. The judicial powers are distributed among a court of chancery, modelled according to the English system, the governor being chancellor, a supreme

court of common law jurisdiction over the whole state, with a circuit court for the trial of issues of fact in civil cases in each county, courts of common pleas in the several counties for the trial of civil causes, orphaus' courts for matters of testament, administration and guardianship, and courts for the trial of small causes before justices of the peace. The courts of criminal jurisdiction are courts of general. quarter sessions of the peace, courts of oyer and terminer, and general juil-delivcry, the supreme court, and the governor and council for the trial of impeachments exhibited by the house of assembly. military force of the state, according to . the official report of the adjutant-general for the year 4830, is 35,360, consisting of cavalry, 1810, artillery, 1886, riflemen. 1115, infantry, 30,156, and general and brigade stati, 93. The literary institutions are two colleges, numerous excellent, academics, and many valuable private schools. The college of New Jersey at Princeton has long and justly maintained a high reputation, and numbers among its alumni many of the most eminent men of the Umon, especially in the Southern States. . The other institution, a few years since reorganized under the name of Rutgers' college, has already earned distinction. A theological seminary of the Presbyterian church is established ac Princeton, and another, under the charge of the Dutch Reformed church, at New A great attention to the Brunswick. cause of public education has recently arisen throughout the state, and measures are in progress which promise important and happy results. A school fund, now exceeding \$250,000, is managed by trustees, under the authority of the legislature, and is steadily increasing; while a large portion of its annual income is distributed autong the several townships, and is applied, augmented by moneys voluntarily raised by the townships, to the support of common schools, and otherwise to extend the means of education over the whole community. A liberal spirit of public improvement has been awakened. and is now encouraging and carrying on . a number of works of great public utility. A canal to connect the waters of the Delaware, near Elaston, with the tide water of the Passaic, near Newark, is nearly completed, and will open an access to a most valuable and improvable region of the state. A grand canal for sloop naxigation, of seventy feet width and seven feet depth at the water line, from the Delaware, near Trenton, to the Raritan, near

New Brunswick, intended to afford a communication by water between the cities of New York and Philadelphia, is in active progress. A rail-road from Camden, opposite Philadelphia, by way of Bordentown, to South Amboy, will soon be ready for use. Another, from Paterson to Hoboken, is begun. For another, from Elizabethtown to Somerville, a company has been incorporated and formed, and divers others are in contem-The people of this state are chiefly engaged in agriculture and manufactures, and but few, comparatively, are employed in commerce. While some parts of the state are sandy and barren, or, being rocky and mountainous, are not well adapted to cultivation, large portions have a soil of great fertility, well suited to the cultivation of grain, and for grazing; and, accordingly, upon the extensive meadows, herds of cattle are raised for the markets of New York and Philadelphia. Large quantities of butter and cheese of superior quality are made. The breed of horses is excellent. Apples, peaches, and fruits of all kinds, are raised in abundance. The Newark cider and the Burlington hams are of great celebrity. Wheat, rye, Indian corn, buckwheat, potatoes, oats and barley are staple commodities. Emigrants from the vine countries of Europe have pointed out some districts as very suitable to the cultivation of the grapes used for the making of wine; and it is believed that the situation of the state furnishes peculiar advantages for the rearing of silk-worms and the making of silk. Manufactures are flourishing and improving. Glass of various kinds, and in large quantities, is made at thirteen different establishments, in the counties of Warren, Cumberland and Gloucester. Paper is extensively manufactured in Springfield, at Morristown, near Trenton, and at Mount Holly. Gampowder is made near Spottswood. Iron is probably the most important article of manufacture. Bog ore is found in Burlington and Monmouth; and the mines of the northern counties are rich, and, perhaps, inexhaustible. Forges and furnaces are in active operation in Morris, Sussey, Monmouth, Glotteester and Cumberland counties. There are and Comberland counties. rolling and slitting-mills at Paterson, Bridgeton and Dover. At the latter place 'ton.) chain-cables are made, and at both the former, cut-nails in abundance. towns most engaged in manufactures are Newark and Paterson. noted for the manufacture of leather, and of Norwich, 42 south-east of Hartford, the exercise of various occupations in and 52 east of New Haven; lon. 72°9

which it is employed; also for the making of carriages, cabinet ware and fancy chairs. The latter is chiefly engaged in the manufacture of cotton, hemp and ma-, chinery. In 1829, there were in Pater-son 487 power and hand looms in operation, and four machine factories, in one of which was made, in the preceding year, 15,048 spindles, with their apportenances; and connected with it is an iron and brass foundery, producing, annually, 35,000 pounds of brass, and 1,020,000 pounds of iron castings. The number of persons employed in the various establishments, many of whom were children, was 1879. The cotton and flax annually consumed amount to 2,779,600 pounds; and the quantity of duck, and cloth of all descriptions, manufactured, 2,601,150 vards.— This state is rich in mineral productions. Limestone extensively prevails. Iron, as already mentioned, is abundant. Marble and zine are found. Ores of gold and silver have been discovered in the county of Warren, and the former recently near Somerville. Copper mines in Somerset and Bergen counties were wrought before the revolution, and extensive veins are believed to cross the state in a south-westerly direction from Schuyler mine, near Bellaville, to the river Delaware. Marl, peculiarly fitted as a manure for the sandy regions, is found in their vicinage. Peat exists in different districts in exhaustless beds. Clay of superior quality for the arts is dug up in great abundance near South Amboy; and sand, used as an ingredient for the finest glass, is carried from beds recently discovered near Port Elizabeth, in the county of Cumberland, to the principal manufactories of the Union. The chieftowns are Trenton, Newark, Paterson, Hackensack, Morristown, Newton, Belvidere, Elizabethtown, New Brunswick, Perth Amboy, Princeton, Somerville, Burlington, Mount Holly, Woodbury, Salem and Bridgeton. The seat of the state government is at Trenton, in which is a state-house, a large and convenient but plain building, for the accommodation of the legislature and the superior courts; and near the town stands the penitentiary or state prison, where about 130 convicts are imprisoned, at hard labor.

NEW JERSEY COLLEGE. (See Prince-

New Lordon; a city and port of entry, The "in New London county, Connecticut, on the west bank of the river, Thames, three The former is miles from its mouth. It is 13 miles south

W.; lat. 41° 22' N.; population in 1810, 3233; in 1820, 3330; in 1831, 4256. The courts for the county are held-alternately here and at Norwich. New London harbor is the best in the state. It is defended by fort Trumbull on the west side of the river, and by fort Griswold on the east side, in Groton. On a point which projeets considerably into the sound is New London light-house. The commerce is considerable, both in the coasting trade with the Southern States and foreign trade with the West Indies. The town is irregularly, laid out, but has convenient public buildings, and churches for Congregationalists, Episcopalians, Baptists and Meth-Packets and steam-boats ply regularly between this port and New York. (See Connecticut.)

Newnarket; a town in Fingland, partly in Cambridgeshire, but mostly in Nor-folk; thirteen miles north-east of Cambridge, sixty north of London; lon. 27 E.; lat. 52° 15′ N.; population, 1792. It is chiefly celebrated for horse-races, being the first meeting in the kingdom. The town owes its support principally to the races, which are held chiefly in the spring, and the months of July and October. It has two markets weekly, on Tuesday and

New Mexico; a territory belonging to

Thursday.

the Mexican United States. (See Mexico.) New Nermanands. (See New York.) New Orderns; a city of Louisiana, situated in the parish of Orleans, in a bend of the Mississippi river, on its left bank, 105 miles by the river, and 90 in a direct line from the Balize, at its mouth; lat. 200 57 N.; lon. 90° 7' W. It is 1203 miles . from Washington, about 1000 below the mouth of the Ohio, about 1200 below the mouth of the Missouri, and nearly intermediate between Boston and Mexico; population in 1810, 17,242; in 1820, 27,176; in 1830, 46,310. New Orleans is the seat of government for the state, and is the grand commercial metropolis of the Mississippi Valley. No city on the globe possesses so great natural advantages for a commercial capital. The Mississippi, and its tributaries above this city, have an extent of more than 20,000 miles of waters, already navigated by steam-bouts, and passing through the richest soils and the pleasantest climates. Its communication with the ocean is easy. Numerous bayons connect it with every part of the state. By , a basin and canal, and the bayou St. John,

it communicates with lake Ponchartrain,

and the lakes thence to the gulf of Mexi-

co, the opposite Florida shore, with Mo-

bile, Pensacola, and the whole gulf shore, east and west. A rail-road between the city and lake Ponchartrain, four and a half miles long, perfectly straight, with only sixteen inches ascent and descent, is now opened; and an artificial harbor and breakwater in the lake, at the end of the railroad, will soon be completed. The Mississippi and its principal branches are admirably adapted for steam-boat navigation, and also for the descent of those cheap and capacious vessels, the flat-bottomed The use of steam-boats in towing ships now renders it unnecessary to wait, either at the city or below it, for favorable winds. The forts erected for the defence of the city, during the last war, have been improved, and others have been erected; and the constantly increasing strength of the city itself, and its facilities for receiving the growing strength of the whole Mississippi Valley, must render it secure from foreign invasion. This is but a very brief and imperfect view of the local advantages of New Orleans. The old city, properly so called, is built in the form of a parallelogram, of which the longer sides are 1320 yards, and the shorter, or the depth of the city towards the swamp, 700 yards. Above the city are now built the suburbs of St. Mary and Amunciation. Below the city are the suburbs Marigny, Danmois, Declonet. These are called funxbourgs. Between the city and the bayon St. John are the villages St. Claudo fauxbourgs. and St. Johnsburg. The old city is divided into squares, having a front of 319 feet in length; and each square is divided into twelve lots. Few of the streets are more than forty feet wide. The weoden buildings, of which the city was formerly composed, have mostly given place to those of brick. In the old city, the French and Spanish styles of building predominate. The houses are stuccoed externally, and this stucco, of a white or yellow color, though less durable, is more pleasing to the eye than brick. The fauxbourg St. Mary, and other new parts of the city, are built principally of brick, after the American style. Several warehouses, , with stone fronts, have lately been erected. In general, it may be said that the city is gradually becoming more purely American in all its characteristics; but a great portion of its inhabitants are of French and Spanish descent, and the French language is used more than the English. During the season of most active business, the manners, dress, customs and languages of the world at large seem to be here exhibited. Those who desire to

witness a display of the commodities of all chinates, and all countries, with the costumes and languages of civilized and uncivilized men and women, may do well to visit the market of New Orleans. especially on a Sunday morning in February or March. We have not room, without too much extending this article, to describe the public buildings of this city. In general, they are commodious, elegant, and very expensive. There are few churches, and Sunday is spent more after the custom of Catholic countries than in any of the Atlantic cities. The Catholic cathedral is a noble edifice, ninety feet by 120, with four towers. The roof is covered with hollow tiles, as are most of the French and Spanish houses. The

charitable institutions of the city are highly creditable; they are very efficient in alleviating the wants, miscries and vices of the native and the stranger. The means of education in New Orleans are very limited, compared with those of the other: large cities in the U. States; but there have been great improvements within the last three years. The police of the city has become very efficient, and scenes of riot and disorder are rarely known. Considering that one half of the people are slaves, and that so great a variety of strangers habit ally throng this city, there is , more order and good morals than could be '. expected. The following table will present a view of the commerce of New Orleans.

Imports into New Orleans from the Interior during Six Years.

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Articles,	1824.	1825.	1826.	1827:	145%	1829.
Bacon, assorted, hhits.	349	1,210	470	1,533	3,097	2,868
Bagging, pieces,	4,562	6,191	5,900	2,795	5,972	13,172
Butter, kegs,	1,868	2,130	2,926	4,561	3,860	3,995
Beef, barrels,	7:32	1,212	1,203	1,792	5,622	5,105
Beeswax, do.	295	503	560	603	770	795
Buffalo robes, lbs.	12,609	18,411	7,740	13,112	19,98?	15,210
Cotton, bales,	142,575	206,093	251,983	337,931	298,042	269,571
Stock, do.	1,501	3,7:37	3,030	11,171	4,365	5,557
Corn meal, barrels,	4,7.27	3,120	729	1,827	40%	6,849
Corn in ears, do.	57,351	72,563	143,373	79,973	89,876	91,882
Flour, do.	100,929	140,546	129,091	131.096	152,593	157,323
Lard, kegs,	18,210	34,373	51,053	85,865	115,535	110,200
Pig lead, pigs,	45,454	58,479	86,242	106,105	183,712	146,203
Linseed oil, barrels,	191	623	708	1,723	2,637	2,940
Deer skins, packs,	3,863	4,520	11,693	1,169	3,160	6,215
Bear skins, do.	168	396	161	253	155	159
Tobacco, hluls.	2,5/3	18,499	19,35.5	21,701	30,224	20,433
Stock, do.	.617	1,332	1,800	6,142		4,23

The amount of cotton exported in the year ending September 30, 1530, was 354,024 bales. Many hundreds of flat boats are seen, at the levee, in the busy season, laden with all the productions of the Valley. Steam-boats are coming and departing every hour, and fifty or sixty are often seen in the harbor at one time. A forest · of musts is continually seen along the levee, except during the sultry months. Nothing seems adverse to the growth of New Orleans, except the unhealthiness of its The surface of the city is several feet/below the level of the river at high water, and the adjacent country is all low and marshy. This is, doubtless, the principal cause of the frequent occurrence of taken active measures to have the country In the third century of the vulgar cra-

well explored, and are commencing a great variety of works for draining, raising, and otherwise improving it. The streets of the city are now paved, and places of staguant water are drained, or filled. Water from the river is now made to wash the gutters of the streets. These and other means are expected to improve the healthiness of the place. If it should be made healthy, it will probably become the largest city of America. (For further statistical information, see Louisiana.)

NEW PLATONISTS; a philosophical sèct. The sect of Platonists (see Plato) was, of all the sects belonging to the Socratic school, the most numerous; but their zeal relaxed, whilst others, particularly the the yellow fever. The legislature have skeptics, began to excite greater interest.

however, the Platonists rose anew, and apparent, or necessary; but if necessary, formed a distinct sect—that of New Platonists, also called the Alexandrian Platanists, because their chief seat was at first in Alexandria. Their doctrines had a tendency to unite Platonism with Orien-The new impulse which the Platonic philosophy, in a new form, suddenly received, is to be explained by the peculiar genius of the first New Platonists; their opposition to skepticism; the inclination of the Greeks, enervated by luxury, to mysticism and Oriental fanaticism; and a desire to oppose to the victorious progress of Christianity a philosophical system of paganism. The New Platonists aimed at the highest knowledge,-the knowledge of the absolute, and an intimate union with it, in order to fulfil the destiny of man, to attain a perfect acquaintance with the universe, holiness and happiness, to which, as they maintained, the knowledge of the absolute (versus) would alone lead. Ammonius Saccas of Alexandria (a man of extraordinary genius, who was obliged to carn his bread by carrying loads, and who, according to the common opinion, was the founder of this school) inspired his pupils, among whom were the famous critic Longinus (q. v.), Pletinus, Origen and Herennius, with his own poeticophilosophical zeal. Plotinus (born at Lycopolis, in Egypt, A. D. 265, and died 270) contributed chiefly to settle the doctrin... of New Platonism, in his writings. Philosophy, according to him, should know the One which is the cause and essence of all things, the original light from which every thing emanates, not by thought and reflection, but, in a perfect manner, by intuition, which precedes thought. The philosophy of Plotinus, therefore, rests on the propositions that the absolute, that which is above the senses, is the foundation of the world; and that it is knowable by intuition, which precedes thought. Intelligence, the product and image of the One, penetrates all. things; and the soul proceeds from it, as the forming thought; the soul again seeks the One the Good, the original cause of the universe. This is done by immediate intuition and enjoyment; and thus, according to him, the conceiving and the conceiver become one; the conceiving soul becomes what it conceives; it returns to the One. 'The whole spiritual world is therefore to be considered as one spiritual being. All is only an intuition. The sensible world is but the image of the intelligible world; time is an image of eternity, and emanates from it. Evil is either only

it ceases to be evil. Among the pupils of Plotinus, Porphyry (Malchus) and Amelius are distinguished. Jamblichus, a pupil of Porphyry, had a large number of disciples, among whom Eustathius, Ædesius, and the emperor Julian, were the most celebrated. At a later period, Athens became the sear of New Platonism. Among the later New Platonists, Proclus of Constantinople (from 412 to 485) is dis-Two circumstances chiefly tinguished. render the New Platonists interesting: first, that poetical elevation of the soul which is most welcome when the student has passed through all the dogmatic systems and skepticism, without finding sat-isfaction; and, secondly, the reconciliation which their system attempts between the Greek philosophy, on one side, and the most ancient symbolical system of the East, paganism in general, on the other. Hence, also, the union of Platonism and the Pythagorean philosophy, and the de-. sire of uniting the contending views of former seets. This attempt, however, to conceive the popular religion, or paganism in its original sense, has led some to reject those accounts which they cite to prove their opinions; and it has been asserted that they, themselves living at so late a period, cannot be testimonies to facts partly buried in the obscurity of remote history. But, on the other hand, it has been asserted that many of these antiquarian and mythological notices, which we find first or only with the New Platonists, bear too much the stamp of truth to be considered as invented by them, and that they might have been taken from earlier sources. The scholastic philosophy and dialectic subtlety of the middle ages, which were addressed solely to the understanding, and the want of a philosophy which should satisfy the whole nature of man, caused, towards the end of the fifteenth century, the renewal of Platonism, as modified by the New Platonists. 'The most distinguished supporter of this new Italian Platonic philosophy, patronised by the Medici, in Florence, was Marsilius Ficinus (q. v.), who died 1499,

NewPort, a post-town, scaport, and semi-metropolis of Rhode Island, is beautitully situated on the south-west end of the island of Rhode Island, five miles from the sea, thirty south of Providence, and seventy-one south of Boston, in lat. 41° 20′ N., and lon. 71° 21′ W.; population in 1610, 7907; in 1820, 7819; in 1830, 8010. It contains a state-house, a jail, several banks and insurance offices, a valuable public ". library, and houses of worship for most of the religious denominations that are found in New England. A very elegant building is appropriated to the library. town lies north and south, upon a gradual ascent east from the water, and exhibits a beautiful view from the barbor and the neighboring hills. It is much celebrated for the salubrity of its climate, and the beauty of its situation; and it is a place of fashionable resort from the Southern and Middle States, during the warmest months. It is more noted than any other town in America for the variety and excellence of its fresh lish. Newport was first settled in 1638, by William Codelington and his associates. It was formerly more populous, commercial and flourishing than at pres-Before the American revolution, it was the fourth commercial town in the colonies, and contained, at one time, more than 9000 inhabitants. It suffered severely by the revolutionary war, and was, for a long time, occupied by the enemy. The principal street is more than a mile long. The houses have an antique appearance. The harbor, which spreads westward before the town, is one of the finest in the world. It has a safe and easy entrance, and is so spacious that a large fleet may anchor in it, and ride in perfect safety. It is defended by three forts: fort Creen, on the north side of the town; fort Adams, on Bunton's point, two miles south-west of the town; and fort Wolcott, on Goat island, in front of the town. On this island there is also a military hospital, belonging to the U. States. A large stone mill is still standing here, which was ere 'ted before the date of the earliest records.

New Providence. (See Providence.) New South Wales; an English colony, on the eastern coast of New Holland, (See Holland, New.) Cook landed here (1770) on his first voyage, took possession of the country in the name of his sovereign, and called it New South Water. He also gave its name to Botany bay, which he entered at the same time. The favorable report which he made of the harbor and the neighboring country, determined the British government to found a colony there (1778), which was soon after removed to Sydney, in Port Jackson, and which, although composed, in a great measure, of convicts, soon became very prosperous. In 1803, a settlement was established on Van Diemen's Land. (See Diemen's (Van) Land.) In 1813, the Blue mountains were passed, and, in 1815, the site of the town of Bathurst (140 miles west of Sydney) was selected. In 1829, ex-

ploring parties had penetrated to a distance of 600 miles into the interior. On the eastern coast, colonization has extended to Moreton bay, 450 miles north of Sydney, and to Port Western, at an equal? distance south. Swan river (q. v.) settlement was established on the western coast of New Holland in 1829. By a proclamation of the governor, in 1829, the limits within which it was permitted to settle, comprised 34,000 square miles, and included 19 counties. The census of that year gave a population of 36,548 souls. The number of acres located was 2,906,000; cleared, 231,573; cultivated, 71,523 : horses, 12,479 ; horned cattle, 262,868 ; sheep, 536,391. The staple of the colony is wool, of which, in 1822, 172,880 pounds were exported; in 1829, the export had increased to 1,006,000 pounds. The total value of exports in 1829 wis £184,720; of imports, £678,663. The inhabitants consist of the officers of the colony, who are landed preprietors, and have some of the convicts as servants; of voluntage inigrants, generally poor per-sons, transported free of expense, to whom land, &c., is given; of convicts who have become free; and of convicts still under the operation of their sentence. Bushrangers are convicts who escape to the woods, andtive by depredations on the colonists. colonists have lately turned their attention less exclusively to pasturage, and more to agriculture : corn, potatocs, tobacco, hemp, tlax, and all kinds of tropical fruits, are cultivated. The climate is mild and healthy; the winter is rainy; it begins in March, and continues till August; there is no snow except on the highest mountains. The colony, although it promises to be of great importance to the mother country, has thus far been a burden. The revenue. in 1828, was £102,577; the expenditure,, 287,954. The commercial connexions are principally with England, cape of Good Hope, China, Mauritius, Van Dio-men's Land, and New Zealand. The moral condition of the colonists is low : schools, however, have been instituted, and are producing good effects; and, a last, a college was founded at Sydney. newspapers, and three or four quarterly periodicals, are published. The govern-ment is under a governor-general and a legislative council (created in 1829); justico is administered by civil, criminal, and admiralty courts. (For further information, see Cumningham's New South Wales (London, 1827), and the Asiatic Journal or Monthly Register for India, China and Australia.) NEW SPAIN. (See Mexico.)

One of the most re-NEWSPAPERS. markable phenomena of modern times is the periodical press, vitally affecting socicty in all its relations, and forming one of the political elements of modern free nations, which the ancients had not even in embryo. They make the course of the statesman very different, and, with most nations, much more difficult, in the present than in former times, so that our days have witnessed not merely the shipwreck of a ministry on these dangerous breakers, Int that of a whole dynasty. Of the periodicals, the newspapers form the most powerful political engine; and of them we shall treat chiefly in this article, leaving a few more remarks for the head Periodical. Reviews, and the like, may contribute more to calighten the public mind on certain important questions; but the wide diffusion of newspapers, their rapid communication of intelligence on subjects of immediate interest, and the means which they afford of acting on the public mind in its state of highest excitement, make them much more powerful as political engines. Newspapers have changed all the relations of government by their unceasing activity. So important an agent of modern society offers a vast field for remark. We might treat of their effects, and of what is, and what ought to be, their char-acter; also of the great difficulty which future historians will find in distinguishing, in many cases, the true from the false in the great mass of conflicting statements which these records of the time presenta difficulty not less than that which arises from 6 2 scantiness of materials in respect to many parts of ancient history; but we fear that even a mere historical treatment of the subject will carry us beyond our proper limits.

The origin of newspapers, like that of many institutions important to modern civilization, is to be referred to Italy. The war which the republic of Venice waged against Solyman II, in Dalmatia, gave rise, in 1563, to the custom in Venice of communicating the military and commercial information received, by written sheets (notizie scrille), to be read at a particular place by those desirous to learn the news, who paid for this privilege in a coin, not any longer in use, called gazettia—a name which, by degrees, was transferred to the newspaper itself in Italy and France, and passed over into England.*

A file of these Venetian papers, for sixty years, is still preserved in the Magliabecchi library at Florence. The first regular paper was a monthly, written, government paper, at Venice; and Chalmers, in his life of Ruddiman, informs us that "a jealous government did not allow a printed newspaper; and the Venetian Gazetta continued long after the invention of printing, to the close of the sixteenth century, and even to our own days, to be distributed in manuscript." Those who first wrote newspapers were called, by the Italians, menuati, because, says Vossius, they intended, commonly, by these loose papers, to spread about defamatory reflections, and were therefore prohibited in Italy, by Gregory XIII, in a particular bull, under the name of Menantes (from the Latin minuntes, threatening). Menage derives the name, with more probability, from the Italian menare, which signifies "to lead at large," or "spread afar." Perhaps it will not be irrelevant, however, for the writer to remark that it is common for the Mecklenburg peasantry, as he knows from experience, to call the newspaper de Logenblad (the lying paper); and the German priverb, in use to this day, "He lies like print (er lügt wie gedruckt)," is probably connected with this view of carly newspapers. The first English genuine newspaper appeared under Elizabeth, in the epoch of the Spanish armada, of which several, printed when the Spanish fleet was in the English channel, during the year 1588, are preserved in the British museum; and it is very curious how much the mode of communicating certain kinds of intelligence in these early papers resembles the forms in use at present. The earliest newspaper is entitled The English Mercuric, which, by authority, "was imprinted at London, by her highnesses printer, 1588." These were, however, but extraordinary gazettes, not regularly published. Periodical papers seem first to have been more generally used by the English during the civil wars of the time of the commonwealth, to disseminate seutiments of loyalty or resistance. They were called weekly news-books. Though Mercury was the prevailing title of most, the quaintness which marks the titles of books in that age is found also in the

gazetta, would signify a little treasury of news. The Spanish derive it, indeed, from the Latin gaze (Greek, yake), though their newspapers, least of all, deserve the name of treasure. They have a peculiar word, wanting in our idiom, gazetista, a lover of the gazette. The German Zeitung is from the ancient theiding, or theiding (the Laglish tiding, the Swedish Tidingar).

^{*} Some ctymologists have thought the name; gazetta is to be derived from gazetta, a magpie, or, in this case, a chatterer; others from the Latin, gaza, which, being colloquially lengthened into YOL IX.

'names of the "news-books;" for instance, the Secret Owl, Heraclitus Ridens, the Weekly Discoverer, and the Discoverer stript Vaked, &c. A catalogue of the Mercuries avould exhibit a curious picture of those singular times. For more particulars respecting the further development of newspapers in the troubled and changeable times which followed the period of the commonwealth, we refer the reader to D'Israeli's interesting Curiosities of Literature, division Origin of Newspapers, in vol.1: also to Johnson's Lives of the English Poets (Addison). For late laws emeted respecting newspapers, under Pitt, and subsequently, as well as for a general

view of the moral and political influence of the English periodical press, we refer the reader to the Periodical Press of Great Britain and Ireland (London, 1824); also to Babylon the Great (London, 1825, 2d vol.); and to the abstracts of acts of parliament, given, among other works, in the AnnualCompanion to the British Almanac. The number of newspapers published in London, in 1829, has been stated at 55; in other parts of England, 158; in Scotland, 38; in Ireland, 74:-total, 325. The following statement exhibits the number of stamps issued for some of the principal London newspapers, in 1829, and the amount of duty received for them:

Newspepers.	Stamps.	Duty.	
Times and Evening Mail,	3,275,311	£51,538 10 4	
Morning Chronicle, Observer, Bell's Life in London, and		,	
Englishman,	2,331,450	38,857 10 0	
Morning Herald and English Chronicle,	2,000,175	33,341 5 0	
Standard, St. James's Chronicle, London Packet, and	' '	1	
London Journal,	1,367,000	22,783 6 8	
Morning Advertiser and Weekly Register,	1,145,000	19.083 6 4	
Courier,	995,200	16.5-6 13 8	
Globe and Traveller	864,000	11,100 0 0	
Bell's-Weekly Despatch,	780,552	13,009 4 0	
Niin,	1 625,000	10,416 13 4	
Moraing Post,	598,500	9,975 0 0	

The following remarks are from the Englishman's Almanac for 1830: "There are printed in London 50 newspapers; in the These connery parts of England, 155. consume 25,000.000 of stamps in the year. The principal London papers are the Times, Morning Herald, Morning Chronicle, Morning Post, Morning Journal, Morning Advertiser, and Ledger, morning papers; the Courier, Globe, Standard, British Traveller, Sun, and Star, evening papers. Most of these journals are conducted with amazing ability. Articles Articles almost daily appear in the Times, which, for rhetorical merit, would adorn some of the most illustrious names in our literature. The subscription to the morning papers is £2, 6s. per quarter. The charge for advertising is 7s. for each advertisement at and under seven lines, and at the rate of 6d. a line afterwards."* The first daily

* The following is the amount of duties paid by the English newspapers in the year ending Jan. 5, 1830: Duties on newspapers, £433,667, 10s. 3d.; on advertisements, £13,692, 16s. 10d. The duties paid by the Scotch newspapers, during the same tene; were, on newspapers, £12,301, 6s.; on advertisements, £17,592, 5s. 7d. On the Irish newspapers, the amount of duties paid in the last year were, on newspapers, £23,576, 16s. 7d Iqr.;

paper after the revolution, when it was forbidden to publish the proceedings of parliament, was the Orango Intelligencer. Under queen Anne, there was but one daily paper. We shall return once more to the English press.

In Germany, newspapers originated with the relations, as they were termed, which spring up at Augsburg and Vienna in 1524, at Ratisbon in 1528, at Dillingen in 1569, at Nuremberg in 1571, where they originally appeared in the form of a letter, and printed, but without the place of printing, and without number. The first German newspaper, in numbered sheets, was printed in 1612, and was called "Account of what has happened in Germany and Italy, Spain and France, the East and West Indies, &c." Since that time, public papers have successively appeared in various places, . under the titles Relation, Ristretto, Correspondent, Courier, Chronick, Realzeitung, &c., which were placed by the governments under censorship.

on advertisements, £14,985, 6s. Thus the newspaper press of the United Kingdom has produced duties, in one year, amounting to £678,178, 3s. 8d. 1qr.

Thus it appears that the desire to receive news from the theatres of war, and from foreign countries, gave birth to regular newspapers in England and Germany; but the case was different in France. De Saint Foix, in his curious Essai historiques sur Paris, says that Renaudot, a physician at Paris, to amuse his patients, was a great collector of news, and thus much increased his practice. As the seasons were not always sickly, he considered that he might turn his treasures to better account, by giving every week to his patients some fugitive sheets, which should contain the news of various countries. He obtained a privilege for this in 1632. The French, at the beginning of the revolution, imitated the English newspapers; but, as their passions became more and more heated, there arose papers like Marat's Ami du Peuple, and Hebert's Père Duchesne, which, at present, we can hardly conceive of as having really existed. history of the French press during the revolution would be exceedingly interesting. Napoleon made great use of the Monitour as an official organ for furthering and making known his projects. (See the article Moniteur.) After the restoration, it declined in interest and popularity, since the royal government, to operate on the public opinion, often made use, in preference, of the semi-official papers, which were frequently under the influence of one minister or another; but, long before that event, owing both to its high price (100 francs a year), and to its neces-Sary partiality, it was by no means the most read of the Paris journals. The Journal & Paris appeared first in 1777, and remained in existence during and after the revolution, but was several times obliged to change its political character. During the ministry of Decazes (1818—20), it was under the influence of this minister. It terminated, in June, 1827, its vacillating and equivocal career. 'The Gazette de France was the first regular French gazette that appeared. It was established by Renaudot, in 1631. Up to 1792, it forms a series of 163 volumes. With a few interruptions, it also continued during the revolution; and, after the second restoration, it belonged, with the Quotidienne, the Drapeau blanc, &c., to the papers of the ultra party. The French gazettes are undertaken in shares; and, as these shares can be sold, it is easy to understand how the gazettes can be bought by the ministry. Each minister made use, without hesitation, of his own 'journal: thus M. de Damas, minister of

foreign affairs, took the Drapeau, and M. de Corbière, minister of the interior, the Gazette. This paper was discontinued in June, 1827; but, in July, 1827, the Etoile, an evening paper, assumed the name of Gazette de France, and became the organ of Villèle, whom it continued to defend after his fall, and assailed the succeeding ministry with the most bitter vehemence. It became the most violent defender of absolute monarchy, and, under Polignac, constantly demanded a coup-d'étal. present, it defends the cause of legitimacy and Charles X. The Etoile formerly belonged to M. de Peyronnet, the minister of justice, and to the Congregation. It received 20,000 francs from the treasury, for publishing the articles of M. de Villele. It was, moreover, the advocate of Jesuitism. The Quotidienne has belonged to M. Michaud, the historian of the erusades, to M. de Vitrolles, &c. It was a violent supporter of absolutism and the clergy. It is said that the royal papers cost the government, before the last revolution, 5,000,000 of francs. In the early times of the revolution, the most distinguished anti-revolutionary papers were the Actes des Apôtres (conducted by Peltier), and the Ami du Roi; and the most distinguished advocates of the revolution were the Chronique de Paris (by Condorcet, Nocl, &c.), L'Oratour du Peuple (by Fréron), the Journal de la Cour et de la Ville (begun by M. Brun, afterwards marshal), and many others. The rapid succession of revolutions had a great influence on the appearance and disappearance of the Paris gazettes. For a long time, the Journal du Soir maintained itself un disturbed, and uninterrupted by any revolution. By its tone, simple, intellectual, and free from the shackles of party, it rode through all the perils of revolutions; and it became a kind of proverb, that, not to be guillotined, shot, or transported, it was necessary to know how to tell the truth like the Journal du Soir. The directory made use particularly of the Re-ducteur to make known us policy to France and the world. One of the most important Paris gazettes, which began in 1791, and has been continued till the present day, is the Journal des Débats (1804-14, and, in March, 1815, called the Journal de l'Empire). For a time, Cliàteaubriand used to write for it against Polignac. At present, it is the paper of the juste milien, and M. Keratry, who fought, in July, 1830, on the side of the people, is one of its editors. With it the editor united, in 1800, a Fewilleton, comprising

the débats littéraires (literary discussions). This part of the journal was superintended by distinguished men, such as Fiévée, till 1807, who was followed by Etienne. In the abbe Geoffroy, especially, it had, for thirteen years, a contributor, by whom it was rendered so popular that 30,000 copies are said to have been sold. Since this time. the Paris gazettes have not contented themselves with mere political news, but have all given literary and theatrical notices. For both Geoffroy manifested an extraordinary talent, and, in this Fruilleton, he daily presented interesting essays, equally distinguished for knowledge and wit, and for sharp satife and humor. Since Geoffroy's death, the sale has di-The best contributors were, minished. subsequently, Malte Brun, Hoffman and Duriequet, in the dramatic department. For a time, it was a ministerial paper, in which Villèle and Chateaubriand commumicated their views. When Châteaubriand left the ministry, he made the Journal des Débats an opposition paper.--Under Napoleon, the press in France, as in all Europe, with the exception of England, was in a low state, and, in all that concerned politics, only the echo of what the Moniteur promulgated, a paper in Which the French emperor not unfrequently caused paragraphs to be inserted, written by his own hand. After his return from Elba, he restored the freedom of the press; but it was cautiously used. After the restoration, the gazettes were subjected to the censorship, which did not cease till 1819. Various enactments were, however, made, which rendered the establishment of a daily journal very difficult: several new gazettes, nevertheless, appeared, notwithstanding these compeutors, the most popular Paris journal continued to be Le Constitutionnel (q. v.), which was founded in 1815, by fifteen share-holders. In its sentiments, it was constitutional, but, in its language, moderate. It was conducted by Eucane, Jay and Tissot. Twenty thousand copies were said to have been sometimes sold. At first, a share was worth 3000 francs: afterwards, 100,000. The Courrier Français, formerly conducted by Kératry, was much more liberal, but had a less sale, and the editor was frequently summoned before the criminal court. The Journal du Commerce belongs almost solely to Paris merchants. It frequently treats financial questions with great knowledge of the matter. From it we generally gather Laffitte's opinions.—In the history of the French press, the tendency suits, as they are styled, are deserving of mention.

On the entire emancipation of the press, in 1819, the spirit of political party was so fomented, and gave rise to such excitements, that the government, together with two other laws of exception, which they laid before the chambers, after the murder of the duke of Berry, proposed anew to subject the journals to the censorship-a proposal which met with violent opposition from all parties, but was, nevertheless, passed in the chamber of deputies, March 30, 1820. This law of exception was prolonged in the session of 1820, so as to embrace the period of the session of 1821, but was afterwards repealed, and supplied by the supervision of the police, because the censorship was found incompatible with a representative constitution. the other hand, the new laws against the abuses of the press were drawn up in stricter terms. Both the proprietors and editors were made responsible, and libels were punished by fine and imprisonment: even the intention, the secret purpose of a suspicious article, could be made punishable, if its tendency appeared dangerous, The proprietors were compelled to give securities for the good behavior of gazettes and periodical papers, in sums of 750--10,000 francs rents. For Paris, a security of 10,000 francs rents was necessary, calculating, therefore, according to the then rate of interest, a capital of 150,000 francs. Villele finally succeeded in restoring the censorship; but, when he convened the chamber of representatives in 1827, the consorship was obliged to cease. After Villele's downfall, a unider law of the press as a submitted, in 1828, by the new ministry to the chambers, and accepted. (For the attack on the press by Poligure, see France.) A French paper (Le Compilateur), in an article written in 1829, and speaking of things as they then stood, says, "There are in Paris 152 jourmals, literary, scientific and religious, and 17 political, in all 169. Of these papers, 151 are constitutional, or, as they are called, liberal, the 18 others being more monarchical in their spirit. The 151 constitutional journals have, it is stated, 197,000 subscribers, 1,500,000 readers, and produce an income of 1,155,200 francs: the 18 others have 21,000 subscribers, 192,000 readers, with an income of 437,000 francs. Le Monileur, the official paper, has from 2500 to 4000 subscribers, principally public functionaries; Le Constitutionnel, 18,000 to 20,000 subscribers; Journal des Deliats, 13,000 to 14,000 subscribers; Qualidienne, 5000 subscribers; Courrier Français, 4500 subscribers; Jour-

nal du Commerce, 3500 subscribers; Gazelle de France, 7000 subscribers; Messager des Chambres, which, since the accession of the Polignac ministry, seems to have taken up liberal ideas, has 2500 subscribers; Tribune des Départemens, a new paper, 100 subscribers; Nouveau Journal de Paris, 1000 to 1500 subscribers. These are all published in the capital: those printed in the provinces are calculated at 75 journals, exclusive of papers for advertisements, and ministerial bulletins. Of these, 66 are constitutional, supported only by their subscribers of the . same way of thinking. One (the Mémorial de Toulouse) is supported by the archbishop of that diocese; four are, it is asserted, paid from the secret funds of the Jesuits: the other four are described as monarchical, but of little influence." far the Compilateur. In 1812, there appeared 45 journals in Paris; in 1826, 179; in 1829, their number was 309; hence more than six times as many as in 1812, and two tittles more than in 1826. Among those branches for which there were, in 1812, no journals, commerce had, in 1829, 15 journals, the Catholic worship 12, morals and philosophy 6, Protestantism 3, gardening 3, the marine 2, magnetism 2, freemasonry 1; manufactures (which had, in 1812, but one) and political economy (which had none) had, in 1829, 7. Even gambling and lotteries had acquired three The literary gazettes had increased in that year from 5 to 61; the political, from 5 to 32; the advertising papers, from 1 to 27; the medical, from 5 to 28; priodical publications for education, from 2 to 14; journals for general literature, from 3 to 12; the journals which relate to public institutions, and the administration, from 1 to 10; the law papers, from: 10 to 48, &c. No branch whatever had fewer papers than in 1812; one branch only had retained the same number,—bibliography, which had one. we compare, however, the two years, in respect to the frequency of publication, the increase appears still greater. While, iu 1812, 25 monthly papers, and, in 1827, 107 monthly (therefore not quite four times as many), appeared in Paris, the number of daily papers, in 1829, was six times greater than in 1812 (5:30); moreover, there appeared 47 journals twice a week, while, in 1812, no paper of that sort was issued: in 1829, there were 45 weekly publications, while, in 1812, there were but two. It must also be mentioned, that almost all the papers were printed, in 1829, on larger sheets, and

the periodicals in thicker volumes: in short, we believe it would be correct to say that the above proportion of 45 to 309 expresses but half of the actual increase. In the departments, the periodicals of 1812, 146 in number, had increased, in 1829, to 398. In 1812, there were 64 political papers; in 1829, 81: of scientific papers, and those for the fine arts, in 1822, only 13; in 1829, 51: for literature, in 1812, 1; in 1829, 60: advertising papers, in 1812, 08; in 1829, 206. Nine departments which, in 1812, had no papers at all, had, in 1829, several. Almost all have more than in 1812, and very few, as Haute-Vienne, have a smaller number. Only in one province four whole departments had taken no part in this general advancement, and this province is the very one which M. Dupin has marked so black on his map of political economy,-Bretagne. In Paris, they, the increase had been sixfold, in the departments three-fold. One of the chief causes of this difference was that, in Paris, where so many printers reside, some independent ones were always found who would undertake liberal publications, while, in the departments, the in- I fluence of the prefect, bishop, &c., was too great. Another cause was the immense centralization in Paris, effected by the revolution and Napoleon. If France ever receives the municipal administration, for which she has sighed so long, the departments will immediately appear more independent of Paris. We cannot give a statement of the French papers since the revolution of 1830. New papers have been started, as the Révolution; old ones have ceased; several have changed their color.*-As regards the French journals devoted to literature, amusement, and general discussion, we may observe that the Mercure de France was, for more than a century, the only weekly journal of this character. The whole series (1672-1813) consists of 1657 volumes in 12mo., and 110 volumes in 8vo. It is still kept up, but has little popularity. In 1818 and 1819, the ultra-liberal Minerve Française made a great noise by its political pieces. The chief contributors were Etienne, Jay, The Jouy, Tissot and Benj. Constant. circulation was computed at 15,000 copies, and the net profit to each of the soven proprietors was 30,000-10,000 francs a year. After the restrictions of the freedom of the press, it was discontinued in March.

* Something on the recent state of the pupers of Paris may be found in a letter of the writer known under the signature of O. P. Q., in the Morning Chronicle of January 23, 1831.

1820. The Tablelles Universelles, edited for several generations, with the greatest weekly, since 1823, by Coste, has contained some very able essays on general polities and literature, and maintained with success the character of a legitimate opnosition. But, in 1824, these Tablettes took the tone of the ministry, who had succeeded in purchasing of M. Coste the property of the journal for a very high sum (180,000 francs). The most valuable, and, in some measure, the leading paper in philosophy and literature, is the Globe of Paris, in which professor Cousin has taken a part. It has contributed to make the French more, liberal in their views of foreign literature. In Italy there are similar periodicals; thus the Giornale Arçadico di Roma embraces literature, fine arts, and miscellaneous subjects. In Milan, since 1828, has appeared the Echo (Eco) which endeavors to keep up a literary intercourse between Italy and other countries. In the Netherlands, Sweden, Denmark, &c., there are similar journals, which we have not space to enu-

Italy, Spain (till the revolution of March 7, 1820) and Portugal, present little worthy of notice, as respects the periodical press. During the occupation of these countries by the French, it was, indeed, more developed than before; but Napoleon left it no freedom. At present, from causes easily understood, it has fallen still lower in these countries. The Restaurador, in Madrid, has been devoted, since the restoration, in 1823, to the political system of the clergy, and the Gaceta, of Madrid, has a semi-official character. Of the Italian gazettes, the Gazella di Firenze, the Gazelta di Milano, and the Diario di Roma, are the only ones that are read in foreign countries.

In the kingdom of the Netherlands, there were, in 1829, newspapers in the Dutch and French languages. Several of the latter, and, above all, the Vrai Libéral, in Brussels, have been among the most fearless journals of Europe, on which account the editors have been constantly at variance with the tribunals. The press in the Netherlands has been, indeed, free, but the law of libel so much the more rigorous, and not unfrequently enforced with great soverity, especially since the law of 1815; but, in 1829, the project of a milder law respecting the press was submitted to the chambers. For a long series of years, the (French) Gazette de Leyde enjoyed a great reputation, and was regarded as the gazette diplomatique of Euy rope. It was the property of the Luzac amily in Leyden, by whom it was edited

care, and in the purest French style. Of the gazettes published in Dutch (called courants), the Haarlem gazette is the most popular, and has the most extensive sale. In almost every Dutch town, there is published such a courant, filled, for the most part, with articles of intelligence; and in all of them the singular custom has been introduced of printing them with lines running lengthwise on the margin. In the year 1828, the Niewsen-advertentie-blad, the Gazette des Pays Bas, the Industriel, with some others, were the most important political papers. In 1826, there appeared, in the Dutch language, 80 daily and weekly papers, and 35 monthlies.

In Switzerland, there appeared, in 1824, 11 political papers, 7 of which were German, 2 French and 2 Italian. A later account of Switzerland states that 24 newspapers appear each week, edited 9 by Catholics, 15 by Protestants, not including 5 papers appearing once a week or fortnight, nor merely scientific periodicals. (See La Chronique Suisse of 1830.) In Sweden, there is not much opposition or independence among the papers. (See Swedish Language and Literature.)

The Statistique et Rineraire de la Russie, by J. H. Schnitzeler (Paris and St. Petersburg, 1820), informs us that, in 1829, 73 papers and periodicals were published in the empire. The first paper was published in 1703, under Peter I. The Severnam Ptchela (Bee of the North) seems to have most subscribers. It appears at Petersburg three times a week. Several papers are published in foreign languages; for instance, the Gazette de St. Petersbourg. and the Journal de St. Petersbourg. (We refer, for more information, to the abovementioned work, page 106 et seq.)

The Greeks have had, since 1821, political journals in their language: Maximo Reyband also published in Patras a weekly paper, the Courrier d'Orient. In Smyrna, the place of the Specialcur Oriental was taken, in 1827, by the Observateur Impartial (friendly to the Turks), and subsequently by the Courrier de Smyrnc. Even Tripoli (in Barbary) has had since July 31, 1827, a political and literary French monthly-L'Investigateur Africain. The following is copied from Rufus Anderson's Observations upon. the Peloponnesus, and Greek Islands, made in 1829 (Boston, 1830). "There are two newspapers now published in liberated Greece, which exert considerable influence, although neither has a numerous subscription. One is in the

Greek language, the other in the French. The former, called the National Journal, is the organ of government: it is printed twice a week, and costs six Spanish dollars. 'The latter, entitled the Oriental Courier, is issued once a week, and is professedly devoted to politics, commerce and litera-Three newspapers in the modern Greek language were published in Vienna before the revolution.—Among the newspapers which appeared in Greece during the revolutionary struggle, were the following: the Ephemerides of Athens, edited by Mr. Psillas; the Friend of the Laws, edited by Mr. Chiappa, an Italian, at Hydra; the Greek Chronicle, edited by doctor Meyer, a German, at Missolonghi; and the Greek Telegraph, printed at the same place, under the auspices of lord Byron," &c. We might mention here the French paper Le Spectateur Ori-

ental, published at Smyrna.

In Germany, as in France, the periodical press was of little importance till the French revolution, and, compared with England, France, and even the Netherlands, it has always remained so. By the resolutions of the German diet of Sept. 20, 1819, it has again been placed under strict supervision. Till the beginning of the French revolution, the Himburger Correspondent was almost the only gazette in Germany which derived its information respecting foreign countries from original correspondence. The New Zeitung, in Hamburg, could not eventually sustain a competition with it, and was discontinued. From these and simila socrees, articles were copied into hundreds of provincial papers, and this was then called editing a gazette. explains, in part, the contempt which was connected in Germany with the idea of a news paper writer, and which, even of late, when this employment has been more worthily pursued, has not entirely disappeared. The sale of the Hamburger Correspondent continued to increase from the breaking out of the revolution. time, the sale of the Correspondent was rated at between 30,000 and 36,000 copies, On the union of Hamburg with the French empire, if received such a blow, that, in a short time, the sale amounted to only a few thousands. In 1828, twenty-one gazettes, daily and weekly sheets, were published at Hamburg. Argumentative papers, in the character of the French and Faglish gazettes, there were, properly speaking, till very lately, none in Ger-many; but a new kind of periodical sprang up in Germany in 1798, which

soon outdid all others—the Universal Gazette. The bookseller Cotta, then in Tubingen, conceived the first idea of it. The Allgemeine Zeitung (Universal Gazette) is published at Augsburg. It has correspondents in all the countries of Europe, who supply it with intelligence; the German and foreign governments also frequently make use of it to influence the publie by semi-official articles. This has been done with much dexterity by the Austrian government, especially in its transactions in paper money and public stocks; even the French ministry frequently made use, in the period of 1813-20, of the Allgemeine Zeihing (though yet more of the London papers). In the appendix there are frequently interesting surveys of the political literature of particular countries. Biographical notices and characters are given of remarkable travellers and the most important publie characters of our times. Notwithstanding all these advantages, the sale of the . Illgemeine Zeitung is, on the whole, small, and merely covers the expenses. In 1817, it amounted to about 2000 copies; at present some estimate it at 5000, others at 1500-2000. Besides this political paper, Cotta has published, since 1828, Das . lustand, a journal for the knowledge of the intellectual and moral condition of other nations; and, on a similar plan, he has published in Munich, since 1829, Das In-The latter embraces Germany alone, with particular reference to Bava-Dhripg the subjugation of Germany by the French, the German papers avoided relating any political news, which had not been inserted in the Moniteur, or some one of the semi-official papers of Paris. The emancipation of Germany in 1813, gave rise to a number of political papers in the awakened spirit of the times. Kotzebue and Niebuhr each commenced such a journal, but both were soon discontinued. Among the most celebrated gazettes of this period, the Rheinische Merkur of Gorres (q. v.) should be particularly mentioned. January 23, 1814, appeared the first, and January 10, 1816, the last number. In Austria, which, excepting the official gazette of Vienna, had, till then, produced no journal of any political or literary importance, a paper called the Estreichische Beobachter (Austrian Observer) arose, which was soon regarded as semi-official, and was read with attention throughout Germany, as it was the only one which . permitted itself (from 1809-13) to throw, from time to time, a few cays of light on the subject of Spain, and the political situation of the European powers.

proprietor and editor of this paper is Mr. von Pilat, the private secretary of prince Metternich. The sale of the paper in the period just mentioned is said to have amounted to 6000 copies. According to the Hesperus (1824, Nos. 228, 230, 257 et seq.), the periodical literature of Austria. including the Bohemian, Hungarian and Italian, is to that of Prussia as 27 to 47. By the decrees of the German diet of Sept. 20, 1819, which were to remain in force for five years, and have since been indelinitely prolonged, all the German gazettes, even in states such as Weimar and Wartemberg, where the consorship was formally abolished by the constitut on of the country, were placed anew either under censorship or ministerial supervision. For the literary journals, of Germany, we must refor to the article Periodicals. The Ger- man papers of amusement had their origin with the Zeitung fur die Elegante Welt (the Gazette for the Polite World), established in Leipsic in 1801. The number of journals of this character has since been constantly increasing, although many have perished with the same rapidity with which they arose. One of the most distinguished is the Stuttgart Morgenblatt (21st vol. 1830); we might also mention the Dresden Abendzeitung the Berlin Gesellschafter, and the Literarische Wochenblatt. established by Kotzebne. Other places have similar papers devoted to the enter-tainment of cultivated readers. The circulation of these papers, with a few exceptions, does not extend beyond the limits of the country in which they appear. The Morgenblatt, many of which go particularly to Austria, has the greatest sale: it is estimated at 1500. The journals in the gazette form, have almost superseded, in Germany, the mouthly maga-There are, among the local and provincial papers, several which, under a liberal censorship, might do much good.

The republic of Colombia had, a short time since, sixteen political papers; the other American states, Paraguay excepted, have likewise periodical journals. In Chile, which received its first printing press from the U. States, in 1810, there are now seven gazettes. The British colonies have likewise their journals. At the Cape, the South African Commercial Advertiser, established in 1824, is valuable for its statistics.

No country has so many newspapers as the U. States. The following table, arranged for the American Almanac of 1830, is corrected from the Traveller, and contains a statement of the number of newspapers published in the colonies at

the commencement of the revolution; and also the number of newspapers and other periodical works, in the U. States, in 1810 and 1828.

	1775.	1810.	
Maine			29
Massachusetts	7	32	78
New Hampshire	1	13	17
Vermont		14	21
Rhode Island	2	7	14
Connecticut	2 4	11	33
New York	4	66	161
New Jersey		8	22
Pennsylvania	9	71	185
Delaware		2	- 4
Maryland	2	21	37
Maryland District of Columbia		6	9
Virginia	2	2:3	34
Virginia	2	10	20
South Carolina	2 3	10	16
Georgia	ı	13	18
Florida		1	2
Alabama	1		10
Mississippi		4	6
Louisiana		10	9
Tennessee		Ü	
Kentucky		17	23
Ohio	1	14	66
Indiana	1		17
Michigan			2
Illinois	· '		4
Missouri	1		5
Arkansas			ï
Cherokee Nation			Ĩ
Total	177	358	
Luidi	• •)/	ו להנה	403

The present number, however, amounts to about a thousand. Thus the state of New York is mentioned in the table as having 161 newspapers; but a late publication states that there are 103, exclusive of religious journals. New York has 1,913,508 inhabitants. There are about 50 daily newspapers in the U. States, two thirds of which are considered to give a fair profit. The North American colonies, in the year 1720, had only seven newspapers; in 1810, the U. States had 359; in 1826, they had 640; in 1830, 1000, with a population of 13,000,000; so that they have more newspapers than the whole 190 millions of Europe.

In drawing a comparison between the newspapers of the three freest countries, France, England and the U. States, we find, as we have just said, those of the last country to be the most numerous, while some of the French papers have the largest subscription; and the whole establishment of a first-rate London paper is the most complete. Its activity is immense. When

Canning sent British troops to Portugal, in 1826, we know that some papers sent reporters with the army. The zeal of the New York papers also deserves to be mentioned, which send out their news-boats, even fifty miles to sea, to board approaching vessels and obtain the news that they bring. The papers of the large Atlantic cities are also remarkable for their detailed accounts of arrivals, and the particulars of shipping news, interesting to the commercial world, in which they are much more minute than the English. the immense number of different papers in the U. States, it results that the number of subscribers to each is limited, 2000 being considered a respectable list. paper, therefore, is not able to unite the talent of many able men, as is the case in France. (See the article Constitutionnel.) There men of the first rank in literature or politics occasionally, or at regular periods, contribute articles. In the U. States, few papers have more than one editor, who generally writes upon almost all subjects himself. This circumstance necessarily makes the papers less spirited and able than some of the foreign journals, but is attended with this advantage, that no particular set of men is enabled to eyercise a predominant influence by means of these periodicals. Their abundance neutralizes their effects. Declamation and sophistry are made comparatively harmless by running in a thousand conflicting currents. How different would be the case if there existed in the U. States but a few papers, with from 25 to 30,000 subs libers, and five times as many readers! It seems to us highly necessary for France to render the papers in the departments more important, and to counteract the overwhelming influence of a greet city like Paris, always injurious to the free action of liberty. The lending French papers differ much from those of England and the U. States, by the absence of advertisements, whilst some American papers allow little space to any thing else. As respects propriety of tone, generally speaking, the English, and especially the French papers, excel the American; and perhaps future ages may look upon the violence of political controversy which distigures the journals of our country in the present day with somewhat the same feeling as that with which we regard the intemperance of religious controversy at the period of the reformation. The leading spirits of that time used language which, at the present day, is mostly banished to Billingsgate.

The following account will show the gigantic apparatus of a London daily paper. The copy-right of the Times has been calculated at from £100,000 to :. £120,060; but it would be difficult to affix a correct value to such an establishment. If it be true that the share-holders have sometimes divided a net profit of £24,000 per annum, the capital must be estimated at a much higher rate. Employed upon each morning paper, there are an editor, a sub-editor, from ten to fourteen regular reporters, at salaries from four to six guineas per week, each; from thirty to thirty-live compositors in the printingoffice; one or two readers, who correct the proofs as they come from the compositors; a reading boy, whose duty it is to read the copy aloud, whilst the reader makes his corrections upon the proof; a printer; and a certain number of men and boys to ettend to the printing machine, and to take off the papers as they fall from the cylinders; a publisher and sub-publisher; two or more clerks in the office, to receive advertisements and keep the accounts; a porter, a number of errand boys, &c. The salary of an editor, upon a respectable morning paper, is from £600 to C1000 per annum; and a sub-editor receives from £100 to £600 per annum. Besides the regular reporters of a newspaper, there are several occasional, or, as they are called, "penny a line" reporters; from the circumstance of their furnishing articles of intelligence at a fixed price per line, viz. 13d. or 13d. They are not attached to any particular newspaper. The aggregate charge for copy furnished by these persons forms a considerable item in the weekly expenditure of a newspa-per. The salaries paid by a first-rate morning paper weekly, to its editors, reporters, and others on the establishment, do not amount to less than £180 per week; and if to this be added the expenditure for occasional reporting, for assistance to the compositors, for foreign newspapers, and private correspondence, and various items which it is unnecessary to enumerate, we have a weekly expense of nearly £250. The chief editor's duty begins, strictly speaking, with the publication of the evening newspapers. He has to read their leading articles, and to refute or support their argu-He remains at his post until a ments. late hour, prepared to write comments on the foreign papers as they arrive (a duty in which he is generally assisted by his sub-editor), and to direct, in a leading article, attention to any topic of

interest before the public. During the sitting of parliament, he is compelled frequently to remain at the office until two or three o'clock in the morning; and such is the energy with which the public press in the metropolis is directed, that it is not rare to see a leading article of nearly a colunm, written at two o'clock in the morning, on some subject which had been discassed an hour or two previously in the house of commons. The most extraordinary part of a morning paper is the reporting. It has been stated that the regular reporting establishment varies in number from ten to fourteen. Most of the persons so engaged are gentlemen of education, and frequently law students. During the parliament, the sittings of which commence at four o'clock in the affernoon, the reporters of the leading papers attend by turns, one succeeding the other, according to previous arrangement. each remaining in the house for half or three quarters of an hour; and the reporters of the minor papers much longer. If the debate is not heavy, the reporter in the house of commons, when relieved, enters a small room at the end of the lobby, which has been appropriated exclusively to reporters, and there arranges his notes (which are seldom taken in short hand, as, except in particular cases, short-hand reporting, from the impossibility of finding room in a newspaper for all that a member says, is rather injurious than useful) of the speeches delivered during his turn. He then proceeds at once to the office of the newspaper on which he is engaged, and the editor's attention is directed by him to any thing of commanding interest that has transpired. His slips, as they are written, are given by the printer to the compositors, whose number, during the sitting of parliament, is generally increased; and as one reporter follows another, it is not unusual for a debate, which has terminated only at twelve o'clock at night, to be set up in type, and ready for printing by two o'clock in the morning. On the nights of prolonged debate, when the houses sit late, some of the reporters may be compelled to go back and take what is called a double turn. So active and able are some of the reporters, that it is not an unfrequent thing for one reporter to supply, from the notes of three quarters of an hour, to the paper upon which he is engaged, from two to three columns of closely printed matter. In obtaining intelligence by express, some of the evening newspapers have, within the last two or three years, shown almost incredible ex-

ertion. The Courier and Sun have sometimes contained the speech of the king of France, at the opening of the chamber, twenty-six or twenty-seven hours after it had been obtained by their agents in Paris. During the last invasion of Spain by the French, the Globe regularly employed couriers from Paris, many of which arrived within the twenty-four hours: and the same industry was manifested in getting up communications from Liverpool, at a time when the affairs of South America possessed interest for the English pub-The "penny a line" men are to the press what the Cossacks are to a regular The peculiar mode in which these persons, who are probably about twenty in number, obtain the means of subsistence, is worthy of notice. When the facts upon which an article is to be manufactured, have been collected, the reporter, by means of a paper, something between silver and bank paper, called flimsy, and prepared sheets of silk covered over with a thick coating of printer's ink, and dried, makes seven or eight copies for the several morning or evening newspapers. This is attended with very little trouble. black and white sheets are placed alternately; the reporter writes on the upper paper with a piece of steel or glass, not too finely pointed, so that the paper may not be cut, and with a moderate degree of pressure the ink is transferred from the black to the white sheets, and he obtains seven or eight perfect copies. To each of these copies he affixes his name, and then sends them round to the newspaper offices to take the chance of their insertion. If the subject of the report is thought interesting, he is well paid; for a report of half a column, in each of the morning papers, will produce him in the whole, more than £3 3s. From the competition, however, among these gentlemen, and the prudence of some editors as to the use of reports so Turnished, it is seldom, indeed, that they are so fortunate. A comparison of the number of periodicals and inhabitants of different countries gives the following results:-

In 1827, there appeared, in the U. States, 25,000,000 numbers to 11,600,000 inhabitants; in Great Britain, 483 different newspapers and other periodicals to 23,400,000 inhabitants; in Sweden and Norway, 82 journals to 3,866,000 inhabitants; in the States of the Church, 6 newspapers to 2,598,000 inhabitants. (Stockholm, with 78,000 inhabitants, has 30 journals; Rome, with 154,000, only 3.) Denmark, to 1,950,000 inhabitants, has 80 journals, of

which 71 are in the Danish language; 23 are devoted to politics, 25 to the sciences. Prussia has 12.416,000 inhabitants, and 283 journals and periodicals. (Berlin has 221,000 inhabitants, and 53 periodical works; Copenhagen has 109,000 inhabitants, and 57 journals.) The Netherlands have 6,143,000 inhabitants, and 150 journals. In the German confederation (excluding Austria and Prassia), there are 13,300,000 inhabitants, and 305 journals; in Saxony, to 1,400,000 inhabitants, 51 newspapers; in Hanover, to 1,550,000 inhabitants, 16 newspapers; in Bayaria, to 3,960,000 inhabitants, 48 newspapers. France, with a population of 32,000,000. has 490 periodical works (660 printing establishments, 1500 presses; in Paris, 81 printing establishments, or 850 presses). In Paris alone, containing 890,000 inhabitants, there are 176 periodical works.—As curiosities in this branch of literature, we may mention the newspaper established in Egypt by authority of Mohammed Pacha, printed at Boulac, near Cairo, and containing a report of all public transactions of consequence. February 21, 1828, appeared the first number of the Cherokee Phonix, a weekly paper, published at New Echota, Georgia, partly in English, partly in Cherokee Indian, of the alphabet of which a specimen is given in the article Indian Languages of North America, Appendix, end of vol. vi. In British India six gazettes are published in the Bengal dialect.

Newstean Abber, celebrated as the residence of lord Byron, is signated in Note aghernshire, 136 miles north-west of London, i miles from Mansfield. It was an Augustin monastery, founded by Henry 11, and granted to John Byron by Henry VIII, at the time of the suppression of the monasteries. It has continued in the family ever since. Though much fallen to decay, it is still completely an abbey, and the greatest part of it is still standing in the same state as when it was first built. There are two tiers of cloisters, with numerous cells and rooms, and many of the original rooms are still in use. Of the abbey church, only one end The house and gardens are enremains. tirely surrounded by a wall, with battlements; in front is a large lake, bordered with castellated buildings; all this is surrounded with bleak and barren hills, with scarce a tree to be seen for miles. Lord Byron, in his will, directed it to be sold. The "uses vile" to which it was condemned by the noble bard, seem but too truly depicted in his Childe Harold (i, 7).

Monastic dome! condemned to uses vile!
Where superstition once head made her den,
Now Paphian girls were known to sing and smile;
And monks might deem their time was come agen,
If ancient tales say true, nor wrong these holy
men.

New Style. 'See Calendar, and Epoch.)

NEW TESTAMENT. (See Bible.)

NEWTON, sir Isaac, the creator of natural philosophy, was born at Woolsthorpe, in Lincolnshire, Dec. 25, 1642 (O. S.), and, at his birth, was so small and weak that his life was despaired of. On the death of his father, which took place while he was yet an infant, the manor of Wools thorpe became his beritage. The mother sent him, at an early age, to the village school, and, in his twelfth year, to the town of Grantham. While here, he displayed a decided taste for philosophical and mechanical inventions; and, avoiding the society of other children, provided himself with a collection of saws, hammers, and other instruments, with which he constructed models of many kinds of machinery. He also made hour-glasses acting by the descent of water; and, a new wind-mill, of a peculiar construction, haying been creeted in the town, he studied it until he succeeded in imitating it, and placed a mouse inside, which he called the miller. Some knowledge of drawing being necessary in these operations, he applied himself, without a master, to the study; and the walls of his room were covered with all sorts of designs. After a short period, however, his mother took him home, for the purpose of employing him on the farm, and about the affairs of the house, and sent him, several times, to market, at Grantham, with the produce of the farm. A trusty servant was sent with him, and the young philosopher left him to manage the business, while he himself employed his time in reading. sun-dial which he constructed, on the wall of the house at Woolsthorpe, is still . shown. This irresistible passion for study and science finally induced his mother to send him back to Grantham, where he remained till his eighteenth year, when he was entered at Trinity college, Cambridge (1660). A taste for mathematical studies had, for some time, prevailed there; the elements of algebra and geometry usually formed a part of the course, and Newton had the good fortune to find the celebrated doctor Barrow (q. v.) professor, In order to prepare himself for the lectures, Newton read the text-books in advance: these were Sanderson's Logic and Kepler's Troutise on Optics; the Geome-

first books that he read at Cambridge. · He next proceeded, at the age of about twenty-one, to study the works of Wallis. and appears to have been particularly delighted with the celebrated treatise of that author entitled Arithmetica Infinitorum. Wallis had given the quadrature of curves whose ordinates are expressed by any integral and positive power of $1-x^2$, and had observed that if, between the areas so calculated, we could interpolate the areas of other curves, the ordinates of which constituted, with the former ordinates, a geometrical progression, the area of the curve, whose ordinate was a mean proportional between 1 and $1-x^2$, would express a circular surface, in terms of the square of its radius. In order to effect this interpolation, Newton began to seek, empirically, the arithmetical law of the coefficients of the series already obtained; and, having done this, he rendered it more general by expressing it algebraically. Perceiving that this interpolation gave him the expression, in series, of radical quantities, composed of several terms, he directly verified this induction by multiplying each series by itself the number of times required by the index of the root, and found, in fact, that this multiplication reproduced exactly the quantity from which it had been deduced. Having thus ascertained that this form of series really gave the developement of radical quantities, he was led to consider that they might be obtained still more directly, by applying to the proposed quantities the process used in arithmetic for extracting roots. This gave him, again, the same series, but made them depend on a much more general method, since it permitted him to express, analytically, any powers whatever of polynomials, their quotients and their roots, by considering and calculating these quantities as the developements of powers corresponding to integral negative, or fractional exponents. Indeed, in the generality and in the uniformity given to these developements the discovery of Newton really consists; for Wallis had remarked before him, with regard to monomial quantities, the analogy of quotients and roots with integral powers, expressed according to the notation of Descurtes; and Pascal had given a rule for forming, directly, any term of the developement of binomial powers, the exponent being an integer. Thus was discovered the celebrated formula, known as Newton's Binomial Theorem. (q. v.) Newton further perceived, that there is hardly any ana-

try of Descartes (q. v.) wastalso one of the Aytical research, in which the use of it is . not necessary, or at least possible, and immediately made a great number of the most important applications of it. Thus he obtained the quadrature of the hyperbola, and of many other curves, and also extended his formulae to the surfaces of solids, the determination of their contents, and the situation of their centres of gravity. Wallis, in his Arithmet. Infin. (1665), had shown that the area of all curves may be found, whose ordinate is expressed by any integral power of the abscissa, and had given the expression for this area in terms of the ordinate. Newton, by reducing into series the more complicated functions of the abscissa, which represent the ordinates, changed them into a series of monomial terms, to each of which he was able to apply the rule of Wallis. He thus obtained as many portions of the whole area as there were terms, and, by their addition, obtained the total. But the far more extensive, and, in some respects, unlimited applications that Newton made of this rule, depended on a general principle, which he had made out, and which consisted in determining, from the manner in which quantities gradually increase, what are the values to which they ultimately arrive. To effect this, Newton regards them, not as aggregates of small homogeneous parts, but as the results of continued motion, lines being considered as described by the movement of points, surfaces by-that of lines, solids by that of surfaces, and angles by the rotation of their sides. Again, considering that the, quantities so formed are greater or smaller, in equal times, according as the velocity with which they are developed is more or less rapid, he endeavors to determine their ultimate values from the expression for these velocities, which he calls fluxions, naming the quantities themselves fluents. In fact, when any given curve, surface or solid, is generated in this manner, the different elements which either compose or belong to it, such as the ordinates, the abscissas, the lengths of the arcs, the solid contents, the inclinations of the tangent planes, and of the tangents, all vary, differently and unequally indeed, but nevertheless according to a regular law, depending on the equation of the curve, surface or solid under consideration. Hence Newton was able to deduce from this equation the fluxions of all these. elements, in terms of any one of the variables, and of the fluxion of this variable, considered as indeterminate; then, by expanding into series, he transformed the

expression, so obtained, into finite or infinite series of monomial terms, to which Wallis's rule became applicable; thus, by applying it successively to each, and taking the sum of the results, he obtained the ultimate value, that is, the fluent of the element, which he had been considering. In this consists the method of fluxious, of which Newton, from that time, laid the foundation, and which, eleven years later. Leibnitz again discovered, and presented to the world in a different form,-that of Newton made the differential calculus. these important discoveriés before completing his twenty-third year, and collected them in a manuscript, entitled Analysis per Equationes Numero Terminorum "infinitas, but did not communicate them to any one. About this time (1665), being obliged to quit Cambridge on account of the plague, he retired to Woolsthorpe, and how turned his attention more closely to subjects of natural philosophy. As he was one day sitting under an apple-tree, the fall of an apple led him to reflect on the nature of that remarkable principle which urges all bodies towards the centre of the earth. "Why," he asked himself, "may not this power extend to the moon? and, if so, what more would be necessary to retain her in her orbit about the earth?" He considered that if the moon was retained about the earth by terrestrial gravity, the planets, which move round the sun, ought, similarly, to be retained in their orbits by their gravity towards that body. Setting out with the law of Kepler (q. v.), that the squares of the times of revolution of the different planets are proportional to the cubes of their distances from the sun, Newton found, by calculation, that the force of solar gravity decreases proportionally to the square of the distance; and having thus determined the law of the gravity of the planets towards the sun, he endeavored to apply it to the moon; that is, to determine the velocity of her motion round the earth by means of her distance, as settled by astronomers, and of the intensity of gravity, as shown by the fall of bodies at the earth's surface. To make this calculation, it is necessary to know exactly the distance from the surface to the centre of the earth, expressed in parts of the same measure that is used in marking the spaces described, in a given time, by falling bodies at the earth's surface: for their velocity is the first term of comparison that determines the intensity of gravity at this distance from the centre, which we apply afterwards at the moon's

distance, by diminishing it proportionably to the square of the distance. It then remains only to be seen if gravity, when thus diminished, has precisely the degree of energy necessary to counteract the centrifugal force of the moon, caused by her observed motion in her orbit. Unfortunately, at that time, there existed no correct measure of the earth's dimensions. (See Degrees, Measurement of.) Newton was obliged to employ the imperfeet measures then in use, and found that they gave for the force which retains the moon in her orbit, a value greater by one sixth than that which results from her observed circular velocity. This small difference seemed, to his cautious mind, a strong proof against his bold conjecture. He imagined that some unknown cause modified, in the case of the moon, the general law of gravity indicated by the motion of the planets. Yet he did not abandon his leading notion, but determined to wait till study and reflection should reveal to him this supposed unknown cause. In 1666, he returned to Cambridge, was chosen fellow of his college (Trinity college) in 1667, and, the next year, was admitted A.M.; but he did not disclose his secrets even to his instructer, doctor Barrow. In 1668, however, Mercator (q. v.) published his Logarithmotechnia, in which he had obtained the area of the hyperbola referred to its asymptotes, by expanding its ordinate into an intinite series, which was the main secret of Newton's method. showed this work to Newton, who immediately gave him his own treatise (the Analysis, & c.), but did not yet publish it.— In the course of 1666, his attention had been accidentally drawn to the phenomena of the refraction of light through prisms. His experiments led him to conclude that light, as it emanates from the radiating bodies, is not a simple and homogeneous substance, but that it is composed of a number of rays, endowed with unequal retrangibility, and possessing different coloring properties. More than two years clapsed before he returned to his researches on this subject; but, in 1669, being appointed professor of mathematics, and preparing to lecture on optics, he endeavored to mature his first results, and composed a complete treatise, in which the fundamental properties of light were unfolded, established and arranged by means of experiments alone, without any mixture of hypothesis-a novelty at that time almost as surprising as these properties themselves. Thus it appears, that the

three great discoveries which form the glory of his life,—the Method of Fluxions, the Theory of Universal Gravitation, and the Decomposition of Light,-were conceived before the completion of his 24th year. In 1672, Newton was chosen a fellow of the royal society, to which he communiented a description of a new arrangement for reflecting-telescopes, which rendered them more convenient by diminishing their length without Weakening their magnitying powers, and, soon after, the first part of his labors on the analysis of light. When the first feelings of surprise and admiration, excited by this noble work, had subsided, the society appointed three members to study it fully, and report upon it. Hooke, a man of extensive acquirements and an original turn of thought, but of excessive desire of renown, being one of the members, undertook to draw up the report. Instead of discussing the new facts, as presented by the experiments of Newton, he examined them merely in relation to a hypothesis of his own—that light is simply the effect of vibrations excited and propagated in an clastic medium—and concluded by allowing whatever appeared reconcilable with his own hypothesis, and by advising Newton not to seek any other explanation of the facts. Newtonia reply (Phil. Trans., vii), after exposing some errors of Hooke, adduces new experiments confirming his former results, and refutes the objections to the production of whiteness by the mixture of all the rays. To several other attacks (particularly one by Huygens), which appeared in the Philosophical Transactions, and which were conducted on similar principles, he was obliged to reply. In vain did he declare that he neither advanced nor admitted any hypothesis whatever, and that his sole object was to establish and connect facts by means of the laws of nature. This severe and abstract method of reasoning was little understood, and it is hardly conceivable into what minuteness of detail he was obliged to enter. So much was he disgusted with these difficulties, that he gave up his intention of printing his lectures on Optics with his treatise on Series. Before quitting the lists, however, he addressed another paper (1675) to the royal society, completing the account of his results, and of his views on the nature of light. treatise, united with his first paper on the analysis of light, afterwards served as the base of the great work Treatise on Optics (1704), in which, however, the experimental investigation of the phenomena is

more extensive, and more strictly separated. from all hypothesis. The new experiments with which it was enriched, relate principally to the colors observed in thick plates of all bodies, when they are presented, in a proper manner, to the incident ray. Newton reduced them to the same laws as those of the phenomena in thin plates; and then, considering these laws as established facts, equally certain with the particular experiments from which they are deduced, yet far more universal, he unites them all in one general property of light, each peculiarity of which is characterized with such exactness as to make the general property a pure expression for all the observed laws. The essence of this property is, that each particle of light, from the instant when it quits the radiating body whence it emanates, is subject, periodically, and at equidistant intervals, to a continual alternation of dispositions, to be reflected from, or transmitted through, the surfaces of the diaphanous bodies which it meets with; so that, for instance, it such a surface presents itself to the lummous particle during one of the alternations, when the tendency to reflection, which Newton called the "fit of easy reflection," is in force, this tendency makes it yield more easily to the reflecting power of the surface; while, on the other hand, it yields with more difficulty when it is in the contrary phase, which he termed the "fit of easy transmission," (See Light, and Optics.) In his paper of 1675, after excusing himself for proposing a conjecture as to the nature of light, and declaring that it had no connexion with the facts which he had discovered, he goes on to give one which he should be inclined to consider most probable, if he were obliged to adopt any. He then admits the existence of an imperceptible fluid (which he calls ather), extending every where in space, and penetrating all bodies with different degrees of density. This fluid he considers as highly glastic, and, consequently, pressing against itself and the material parts of other bodies, with an energy proportional to its actual density. If this other be disturbed or agitated, in any one point, by any cause which produces a vibratory motion, this motion must transmit itself, by undulations, through all the rest of the medium; and if these undulations encounter, in their passage, the material particles forming the substance of any body, they will agitate them with considerable force. Now, light, he adunts, consists of a peculiar substance, different from the either, but composed of

heterogeneous particles, which, darting in all directions from luminous bodies, with great velocity, agitate the either in their passage, and excite undulations. does not attempt to determine the essence of these particles. From this time till 1679, Newton communicated nothing to the royal society, and in this interval appears to have been occupied with astronomical observations. In that year he had occasion to write to Hooke about a system of physical astronomy, on which the royal society had asked his opinion. In his letter he proposed, as a matter deserving attention, to verify the motion of the earth by direct experiment, viz. by letting bodies tall from a considerable height, and observing if they follow exactly a vertical direction; for if the earth turns, since the rotary velocity at the point of departure must be greater than at the foot of the vertical, they will be found to deviate from this line towards the east, instead of following it exactly, as they would do if the earth did not move. Hooke replied, that wherever the direction of gravity is oblique to the axis of the earth, bodies in falling change parallels, and approach the equator. This led Newton to consider whether the elliptical motion of the planets could result from a force varying inversely as the square of the distance, and, if so, under what circumstances such a result would ensue. In proposing his experiment to the society, he had considered the motion of the heavy body as determined by a force of constant intensity, and had concluded the trajectory to be a spiral, could less because he imagined the body to fall in a resisting medium, such as the air. Hooke replied, that it should not be a spiral, but that in a vacuum it would be an eccentric ellipse, which, in a resisting medium, would change into an eccentric ovoidal curve; and he represented the eccentric ellipse as the consequence of a force inversely proportional to the squares of the distances from the earth's centre. Newton, having examined this result by mathematical calculations, found that an attractive force, emanating from a centre, and acting inversely as the squares of the distances, would produce motions exactly resembling the planetary motions, both in regard to the form of the orbit and the velocity of the body at each , point. This was the secret of the system of the world; but it still remained to account for the discordance of the moon's motion, which had before (1665) embar-rassed Newton. But, in 1682, having learned the results of the new measure-

ment of a degree by Picard, he resumed his former calculations from these data. Finding, as he advanced, the manifest tendency of these numbers to produce the long-desired results, he became so much. agitated as to be unable to go on with his calculation, and requested one of his friends to finish it. Two years were spent in penetrating the consequences of this discovery, and preparing his immortal work, Philosophia Naturalis Principia Mathematica, during which time he lived only to calculate. He would sometimes rise, and, suddenly arrested by some new conception, would sit on his bedside for hours together, and would forget his meals, unless reminded of the necessity of taking nourishment. It was not till 1686, that he finally concluded to present his work to the society, at the expense of which it, was printed, in 1687. Not more than two or three of his contemporaries were capable of understanding it, and more than fifty years clapsed before the great physical truth which it contained was thoroughly understood by the generality of scientific men. In 1687, Newton was one of the delegates sent by the university of Cambridge, to maintain its rights before the high commission court, when they were attacked by James II, and, in 1688, was elected, by the university, to the convention parliament, but never distinguished himself in that body. He had always taken great interest in chemistry, and occupied himself occasionally with experiments in that science. He had constructed a small laboratory for prosecuting his investigations, and seems, after the publication of the Principia, to have devoted almost his whole time to them. One morning (1022), he had accidentally shut up his little pet dog Diamond in his room, and, on returning, found that the animal, by upsetting a candle on his desk, had destroyed the labors of several years. On perceiving his loss, he only "Oh, Diamond! Diamond! exclaimed, "Oh. Diamond! Diamond! you little know the mischief you have done." But the grief caused by this circumstance injured his health, and, M. Biot endeavors to show, for some time inpaired his understanding. This fact of a derangement of his intellect, according to Biot, explains why Newton, though only forty-five years old when the Principia was published, never after gave to the world a new work in any branch of science, and merely published some which. had been previously composed. Doctor Brewster, however, refutes this notion. In 1696, he was appointed warden of the

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mint, a general recoinage having then been undertaken. In this office, he rendered essential service, and, in 1699, was made master of the mint. In 1701, he was again returned to parliament by his university; in 1703, he was chosen president of the royal society; and, in 1705, was knighted by queen Anne. In 1704, he gave to the world his Optics (in English; translated into Latin by doctor S. Clarke), which contains all his researches The whole merit of this extraon light. ordinary work has not been fully appreciated till within a few years. works, published about this time, were his Arithmetica Universitis (1707; more complete, 1712); Methodus Differentialis (1711); and his Inalysis per Equationes Numero Terminorum infinitas (1711). We have already given an account of the celbrated dispute between Newton and Leibnitz (1712), in the article Leibnitz. (See the Commercium Epistolicum, or Collection of Letters, published by the Royal Society in The princess of Wales (daughterin-law of George 1), a woman of a cultivated mind, had received Newton with great kindness, and was fond of conversing with him. Newton having one day explained to her a system of chronology which he had composed for his amusement, she requested a copy for her A copy was also given to abbé own use. Conti, who immediately published it without Newton's knowledge; and it therefore became necessary to prepare a more correct edition, which appeared in 1728, under the title Chronology of Ancient Kingdoms amended. His Observations upon the Prophecies of Holy Writ (1733) is an attempt to show the fulfilment of the prophecies. In his Historical Account of two notable Corruptions of the Scriptures, he discusses the two passages in the Epistles of St. John and St. Paul, relating to the Trinity, which he supposes to have been altered by copyists. At this period of his life, the reading of religious works, with the conversation of his friends, formed almost his only amusement, after performing the duties of his office. He had almost ceased to think of science; and, during the last ten years of his life, when consulted about any passage in his works, he would reply, "Ask Mr. De Moivre; he knows better than I do." When his friends expressed their admiration of his discoveries, he said, "To myself I seem to have been as a child playing on the sea-shore, while the immense ocean of truth lay unexmilored before me." His countenance was ber calm than expressive; his manner,

rather languid; his health was good until his eightieth year, when he suffered from 'a calculous disorder, which occasioned his death March 20, 1726-7. His corpse lay in state, in Jerusalem chamber, Westminster, and, on the 28th, was interred in Westminster abbev. A monument was erected to his memory, by his family, with an inscription ending with these words, applicable to Newton only: Sibi gratulentur mortales tale tantumque exstitisse humani generis.* His statue, by Roubiliae, stands in his college, at Cambridge. Horsley's edition of his Works (5 vols., 4to., 1779-85), with the Opuscula, collected by Castillon (3 vols., 4to., Lausanne, 1741), and his letters, inserted in the Biographia Britannica, contains nearly all his printed works. Pemberton's View of Newton's Philosophy (1728), and Maclaurin's Account of Newton's Discoveries, are valuable works.-See, also, Birch's History of the Royal Socitly (vol. 3d). The best edition of the Principia is that of Lesneur and Jacquier (4 vols., 4to., Geneva, 1739 -12; 1 vols., 8vo., Glasgow, 1822). A Life of Newton, by doctor Brewster, appeared in 1831. The article Newton, in the Biographic Universelle, by M. Biot, is very complete. The Collections for the History of Grantban, with authentic Memcirs of Sir Isaac Newton, contains much important matter.

Pope's epitaph on Newton is well known — Isaacus Newton hie jacet, Quem immortalem cule, natura, Tompus estendant, Mortalem hoc normor fatetur.

Nature and all ber works lay hid in night, God said, Let Newton be,-and all was light.

† The manuscripts, letters, and other papers of Newton, have been preserved in different collections. His correspondence with Cotes, relative to the second edition of the Principis, and amounting to between (0) and 100 letters, a considerable portion of the manuscript of that work, and two or three letters to doctor Keill, on the Ledontzian controversy, are preserved in the library of Trinity college, Cambridge. Newton's letters to Flanstead, about 34 in mumber, are deposited in the library of Corpus Christi college, Oxford. Several letters of Newton, and, we believe, the original specimen which he drew up of the Principia, exist among the papers of Mr. William Jones (the father of sir William Jones), which are preserved at Shirlanu castle, in the library of lord Macelesfield. But the great mass of Newton's papers' came into the possession of the Portsmouth family, through his niece, lady Lymington, and have been safely preserved by that noble family. There is reason to believe that they contain nothing which could be peculiarly interesting to science; but as the correspondence of Newton with contemporary philosophers must throw considerable light of his personal history, we trust that it will, ery long, he given to the public, (Brewster's Life of Newton.).

NEWTON, Thomas, an English theological writer, born at Lichfield (1703), was educated at Trinity college, Cambridge, where he obtained a fellowship. In 1744, he obtained the rectory of St. Mary-le-Bow, London, and, in 1715, took the degree of D. D. He published an edition of the Paradise Lost of Milton, with notes, and a memoir of the author, in 1749; and he afterwards edited, in a similar manner, the Paradise Regained. But his literary reputation de-pends chiefly on his Dissertations on the Prophecies (1759, 3 vols., 8vo.), several times reprinted. In 1761, doctor Newton was made bishop of Bristol, and after-wards obtained the deanery of St. Paul's, which he held till his death (1782). His works were published with an autobiographical memoir (2 vols., 4to.).

New World; a name frequently applied to the Americas, not because they are supposed to have been of a later origin than the eastern hemisphere, or the Old World, but because they became known to the Europeans at a compara-

tively recent date.

NEW YEAR'S DAY; the first day of a year. (Respecting the determination of the same, see Year, and Epoch. shall treat of it in this place as a festival. It is natural for man to distinguish this day, which begins one of the great divisions of his life, with particular usages. We find this to be the case with most civilized nations. The new year of the Jews began with the month Tishri. was considered as the day on which God holds judgment (hence Jom Haddin, day of juagment), and also as the anniversary of the day on which Adam was created. -The Romans offered sacrifices on new year's day to Jamus, particularly a white steer. In the whole city, much incense was burned, and the newly elected magistrates went in procession to the capitol, where they sacrificed to Jupiter. The success of any affair on that day was considered a good omen for the whole year. People who met greeted each other with Annum novum faustum felicemque tibi. Presents given were called xenoi, and those returned, apophorda, strenæ. They consisted chiefly of gilt dates, dried and gilt plums and figs, honey, rare coins, spoons, lamps, ornamented with a head of Jamus. The emperors made these presents a heavy tax: Caligula, for instance, received them during the whole day, standing In the ante-chamber of his palace, from the high officers. Claudius abolished this burdensome obligation. Henry MI, king of England, seems to have imitated the Roman emperors in extorting new year's presents; and queen Elizabeth, according to doctor Drake, principally supported her jewel chest and her enormous wardrobe by levying similar contributions. Even her majesty's household servants offered such presents; and, among others, the dustman is recorded as having presented her with two bolts of cambric. The 3000 gowns, mentioned in D'Israeli's Curiosities of Literature, as having been found in her wardrobe at her decease, show that the tax must have been heavy. These presents, however, were, doubtless, often given on the old principle do ut des. The Druids of ancient Britain were accustomed, on certain days, to cut the sacred mistletoe with a golden knife, in a forest dedicated to the gods, and to distribute its branches with much ceremony, as new year's gids, to the people. Among the Saxons, this day was also observed by gifts, accompanied with festivities; and they reckoned their age by the number of these merrymakings at which they had been present. Similar customs existed with other German tribes, accompanied by many superstitions observances, so that many laws of Charlemagne are found to be directed against them; and to this very day, a cumber of ceremonies, originally superstitions, but now serving principally to excite mirth, are practised in Germany, on the night of the last of December and first of January. Among the most common, at present, is the melting of tin or lead, which is thrown at midnight into a basin of water, when it will form strange figures, which serve for divination. New year of the Christians, being the eighth dayafter Christmas, is the festival of Christ's circumcision. The day is a holyday, celebrated with religious service all over the Luropean continent. In England, it is not, nor in the U. States, where the aversion of the Puritans to religious festivals. and other causes, prevented their introduction. They were even prohibited in some of the American colonies, by severe laws. At an early period, most Christians celebrated new year on our 25th of March (the conception of Mary). In Germany, this was the case till the ninth century. At a later time, it was changed to December 25, and so continued in Germany until the fourteenth century, and in England even to 1752. Of modern nations, the French celebrate new year with the most spirit. Smith, in his Games and Festivals, says, that it has been estimated that the amount expended upon bon-bons and sweatments alone, for presents on new

year's day, in Paris, exceeds £20,000 ster- North rivers flow into it-rivers, a parling, while the sale of jewelry and fancy articles in the first week of the year is computed at one fourth of the sale during the whole twelve months. (Sec American edition, p. 114.) In Germany, presents are universally given on Christmas eve. In England, new year's presents are not so frequent, nor in the U. States; and the souvenirs, and other works of light literature, professedly intended for such presents, are in circulation so early, that they are stale before new year arrives. In New York, a custom exists (probably a remainder of Dutch manners) of paying visits of congratulation on new year's day. Good store of cookies (Dutch, kock, cake) are provided for the entertainment of the visitors. As it is considered the duty of gentlemen to visit all the ladies of their acquaintance on this occasion, it may easily be imagined that the day is one of considerable stir in fashionable society.

NEW YORK, STATE OF. (See Appen-

dir, end of this volume.)

New York, the largest and most populous city in the U. States, lies in the state of that name, and is situated at the junction of the Hudson and East rivers, at the head of the bay of New York, and about sixteen miles from the Atlantic ocean, in lat. 40° 42′ N., 74° 1′, 8″ W. lon. from Greenwich, England; and 2° 54' 22" E. from the city of Washington. It stands on an island formed by the two rivers just named, and a small river called Hacrlen, which connects them. length of this island is about tifteen miles, from south to north, and its average breadth about one mile and a half. It is separated, on the north, from the continent, by Haerlem river, which is crossed by several bridges; from New Jersey, on the west, by Rudson's river; from Long Island, on the east, by the East river; and from Staaten Island, to the south, by the hay or harbor. According to Van der Denck, who published a History of the New Netherlands, at Amsterdam, in 1656, Hudson's river was the English name of the great river coming from the north: but the Dutch "called it Mauritius, after prince Maurice, who then presided over the government of Holland." The Indian name of the island was Manhatlan; the Dutch called the city Nieuw Amsterdam; gives us the following description of the bay of New York:—"The bay on which Staaten Island is situated is the most celebrated, because the East and

ticular description of which will be presently given, together with a number of kills, gats, and creeks, some of which resemble small rivers, and are navigable, as Raritan kill, kill Van Kull, Nieuvesink, &c. This hav is also so formed as to render it safe from all boisterous winds, and a thousand ships of burthen may harbor in it within the land. The entrance into the bay is extensive, and is accompanied with but little danger to those who have once gone, or have been taught the passage. It persons are so inclined, and the wind fair, they may in one tide proceed from sea to the city of New Amsterdam, which lies five (Dutch) miles from the ocean, and that when deeply laden, with an easy sail, and by ships of the greatest burthen."— The following is the depth of water over the bar, as furnished by the pilot of the U. States' ship Boston, which passed it in June, 1830, with the wind from the westward.

Carried over the bar. . . 25 ft. 6 in. Tide had fallen 1 6

27 ft. 0 in.

The whole island of New York constitutes one county, which is governed by the city charter, and divided into fourteen wards, each equally represented in the common council, and each electing its own municipal officers. Members of congress and assembly are elected by the *shole people, and whoever has the high st number of votes, is chosen, whether that number constitutes a majority of the whole or not. The common council sits, and the courts are held, in the cas, hall, a handsome marble building, finely situated in an extensive park. There is, perhaps, no place in the world where the municipal authority exercises such despotic sway over the property of . the citizen, in opening, leveling, widening streets, and other alterations and improvements. It is not an uncommon case for property to be assessed, for one or other of these purposes, for more than it is worth; and the only privilege accorded to the owner is that of abandoning it to the corporation, and paying the rest out of his own pocket. Under this system, it cannot, however, be denied, that New York has advanced in beauty and improvements almost beyond example. The population, in 1697, was 4302; in 1756, 13,040; in 1790, 33,031; and the English changed it to the name in 1800, 60,489; in 1810, 96,373; in 1820, which it still retains. The same writer 123,706; in 1825, 166,086; and, in 1830, 207,021. In 1769, in a hotly contested election of four days, the number of votes taken was 1515; of the voters 917 were freeholders: in 1830, the number of votes

for members of congress was upwards of 21,000; the proportion of freeholders not known, as property is no longer the basis of representation. The revenue of the of representation. The revenue of the city, in 1830, was 1,036,930 dollars; the expenditure, 1,033,419; and the debt, 774,155. In the same year, the revenue collected at the custom-house was 21,756,709 dollars; the foreign tonnage cutering the port, 450,868 tons; the arrivals from foreign ports, 1510, of which 1356 were American. The number of coasting vessels frequenting the port is almost incalculable. For 1810, the assessment of real and personal property was 125,288,518 dollars; in 1688, the value of estates assessed was £78,231. In 1821, the number of deaths was 4341; in 1825, 5018. The proportion of births to deaths is not known as it ought to be, in order to draw any useful practical conclusions from this subject. Of these deaths, one sixth were from consumptions. The greatest number of deaths, in 1824, was in the month of August, the smallest in December. In 1825, the greatest mortality was in July, The air of and the smallest in April, New York is keen and cold in winter, partly owing to its being entirely surrounded by water, which freezes more or less during that season. The spring is generally lingering and backward, owing to the great prevalence of chilly easterly winds, coming directly from the sea; but the summer is less oppressive than in Philadelphia and Baltimore, and the autunn, for the most part, very pleasant. During the heats of summer, the Battery and laste garden afford a never-failing source of coolness, and a prospect equally refreshing and delightful. The nights are almost always-rendered comfortable, even in the hottest weather, by the sea breezes, the influence of which is felt very sensibly. On the whole, the climate is not unfavorable to health or long life, except to persons inclined to consumption. To them it is highly dangerous. The water in the lower part of the city is brackish. Columbia college is at present the only institution of the kind in New York. It is finely situated, on an open square, ornamented with majestic trees; and the standard of classical education is supposed to be higher than in most of the colleges of the U. States. The faculty consists of a president; a professor of moral philosophy, rhetoric, belles-lettres, and 'political economy; a professor of Greek and Latin; a Jay professor of ditto; a professor of natural and experimental philosophy and chemistry; a professor of mathematics,

analytical mechanics, and physical astronomy; a professor of law; a professor of the Italian language and literature; and a professor of the French language and literature. The number of students is There is a grammar school about 100. connected with the college. It was founded by royal charter, in 1754, which has been frequently confirmed, with occasional alterations, by the legislature of the Columbia college possesses an state. estate valued at 400,000 dollars. university of the city of New York is an institution recently established, chartered by the legislature in February, 1831. It is projected on the broad and liberal scale of the universities on the continent of Europe, and promises to be of great advantage to the literature of our country. Its funds have been raised by the subscriptions of liberal individuals. governed by a council of thirty-two members, chosen by the subscribers, together with the mayor and four members of the common council of the city. A large amount of money has been raised for its endowment; but none of its officers are yet chosen, except the president, secretary and treasurer of the council, and the chancellor of the university. There are numerous schools of all kinds in the city, in which all classes and colors may be accommodated; so that it is not too much to say that the means of obtaining such an education as is essential to the ordinary occupations and pursuits of life, are within the reach of all who will exert themselves to make use of them. There are upwards of 100 churches in the city, of almost every denomination of believers. Of these, some are of a handsome order of architecture, and splendidly ornamented within. The portico in front of the church of the Ascension, in Canal street, would do honor to any city. It is chaste and classical in the highest degree. The disposition of the people of New York is very liberal towards the endowment and support of religious establishments, Bible and missionary societies, &c. Of all the churches of the U. States, Trinity church is the best endowed. It is restricted, by its charter, to an actual revenue of £5000 sterling a year, and has been obliged to alienate a vast property in the city, in order to keep within bounds. But for this, its revenues would probably have amounted to six, perhaps ten times the sum to which it is restricted by charter. The nature of this work does not admit of particularizing the different charitable institutions and societies for the relief of human misery. It is sufficient to say, that there is scarcely a want or infirmity to which our nature is exposed, that has not a resource in some one of these institutions, which are supported either by public munificence or private charity. Neither is New York behind her neighbors in the number of her literary and scientific institutions, although her almost exclusively commercial pursuits might furnish some apology if she were. most ancient of these, it is believed, is the society library, founded in 1754, and containing upwards of 22,000 volumes; the historical society, incorporated in 1809, and which has collegted and preserved a vast number of records, appertaining to the early history of the U. States, and the state of New York particularly. It is to be regretted, that the society has languished for want of funds; this circumstance, it is believed, has prevented its giving to the world many of these interesting memorials of old times. It seems now, however, on the point of a revival to usefulness, owing, in no small degree, to the activity and exertions of Mr. John D la-field, the present treasurer. The lyceum of natural history has been very successful in the pursuit of its objects, and its collections and publications do it great honor. The Clinton Irall association is an incorporation for the promotion of literature, science and the arts, which has but lately attained to an existence, which it is hoped will be prosperous; and the mercantile library association can hardly fail of being emmently useful, if properly conducted. There are two academies of the fine arts in New Yorkthe American and the National-the former supported by amateurs, the latter composed of artists, with a few exceptions. It is hoped and expected they will do something towards the advancement of the great objects of their original formation. In 1827, the returns made, according to law, to the comptroller of the state, made the total of banking capital in New York amount to 15,960,163 dollars. Since that period, several new banks have been chartered, adding largely to this sum. The number of insurance companies is upwards of forty. There is no city in the U. States, perhaps in the world, which possesses greater advantages of situation than New York, both for internal and external commerce. advantages have been improved by a vast line of canals connected with the Hudson, and concentrating the produce of an immense region on its bosom, all of which at

length finds its way to the great mart of domestic and foreign trade. It is here that merchants and traders resort from all quarters; from the shores of the Atlantic. the confines of the lakes, and the banks of the Mississippi, with a certainty that they can dispose of their own produce, and supply themselves with every article they require. It is here, too, that strangers and travellers congregate, as the place of departure to every part of the world, attracted by the facilities offering themselves at regular stated periods. It may serve to give some idea of these, to state, that there are opportunities by regular packets to Liverpool four times a month; to Havre, three times; to London, twice; to Hull, Greenock, Belfast, Carthagena, Vera Cruz, Charleston, Savannah, New Orleans, Mobile, Washington, Boston, Philadelphia, Baltimore, Norfolk, and, indeed, to almost every place of note in the U. States, in lines of vessels, sailing at stated times, which may be relied upon with almost perfect certainty. The advantageous situation of New York naturally inclines the inhabitants to commercial pursuits; but of late years large capitals have been in vested in manufactures, which are daily becoming objects of attention. But the probability is, that it will long remain in a great degree a central point for the com-nerge of the U. States.—That part of the coast of America which comprehends the state of New York, was first discovered by Schastian Cabot, who was employed by Henry the Seventh of England, in 1497. But he made no attempts at landing, or forming settlements, contenting himself with claiming the country for his sovereign, by right of discovery. In 1609, Henry Hudson, an Englishman, acting under a commission from the king of England, entered the bay of New York, and sailed up the river as far as latitude . 43° north. The English writers maintain that he was employed by their government, and that he sold the country thus discovered to the Dutch, without authori-The Dutch writers, on the contrary, maintain, that he was in the service of the Dutch East India company at the time. Be this as it may, the English made no opposition, for some time, to the settlement of the country by the Dutch. The right of the English was, however, in some measure recognised, by the Dutch applying for, and receiving, permission from James the First, in 1620, "to build some cottages on Hadson's river, for the convenience of their yessels engaged in trade with Brazil. Under this license, they settled.

a colony, to which they gave the name of the New Netherlands. Various disputes the New Netherlands. about boundaries, &c., occurred, for several years afterwards, between the English, the Dutch, and the Swedes; but these are no longer subjects of interest. The first buildings erected in New York were in 1021, near the junction of the East and North rivers, about Whitehall, and Broad street, and Coenties, and Old slips. The first Dutch governor was Wouter van Twiller, in 1629, who was succeeded by William Kieft, whose successor was Petrus Stuyvesant, the last of the Dutch governors. King Charles the First having . made complaints of the encroachments of the Dutch on New England, the statesgeneral declared the settlement of New Netherlands "to be only a private undertak-" ing of the West India company of Amsterdam." The 12th of March, 1661, Charles the Second granted to his brother James, duke of York, "all Mattawacks, now Long Island, all Hudson's river, and all the lands from the west side of Connecticut river to the east side of Delaware bay, together with the royalties and rights of government." The duke sold that part of the grant which comprehends New Jersey, and the remainder, which comprehended the present state of New York, was retained by him, and so called in honor of the proprietor. The possession was guarantied to him by the states-general, by the treaty of Breda, in 1667. vious to this, however, in 1664, the New Netherlands was taken by the English. In 1673, it was retaken by the Dutch, and in 1674, on the 9th of February, it again fell into the hands of the English, and so remained until the revolution. In 1683, the first colonial legislature was convoned in New York. In 1765, a congress of deputies from the colonial assemblies met at the same place to consult about grievances. In 1770, the liberty pole, which had been set up by the citizens, was cut down by the soldiers, and a new one creeted, secured with iron. About the same time, the assembly gave great offence by voting 5000 dollars for the supply of the king's troops quartered in the colony. On this occasion, an address was published "To the betrayed inhabitants of the city of New York," signed "A Son of Liberty," which the assembly pronounced a "false, seditious, and intimous libel." Captain. afterwardsgeneral McDougall, was brought before the chief-justice as the publisher, refused to give bail, was committed to prison, and afterwards admitted to bail. He was ordered before the bar of the

assembly at their next meeting, refused to ask pardon, was committed to prison for contempt, and there remained until the assembly was prorogued, in 1771. About the middle of December, 1773, seventeen chests of tea, which had been brought to the city from a tea ship lying at Sandy Hook, were seized by the citizens, and thrown into the river. In the year 1775, the assembly of the province met in New York, and renounced all concern in the proceedings of the congress which convened at Philadelphia the preceding year, declining choosing members to the new one. At the same time, they petitioned the king, in their own names, for a redress of grievances; remonstrated in behalf of the people of Massachusetts; and concluded by disavowing all ideas of independence. This course gave great offence to the popular party denominated the sons of liberty, who called a meeting, March 6, which eventuated in an appeal to force, in which the tories were put to flight by the sons of liberty, armed with hoop-poles; and the scale from that moment turned in favor of the popular party, under captain Sears, or king Scars, as he was familiarly called. On receipt of the news of the affair at Lexington, Sears, in conjunction with captain, afterwards general Lamb, called a meeting, in which it was resolved, that the custom-house should be closed. A committee of 100 persons was appointed to preserve order in the city, and an association entered into to stand by the continental congress. But the citizens were far There was a strong from being united. party among the more wealthy, which . only awaited an opportunity to thwart these measures. Captain Sears, who had been ordered, by the convention appointed to direct the affairs of the colony, to remove the cannon from the battery, succeeded in his object, though fired upon by the Asia seventy-four, which lay off in the river. The conduct of the citizens of New York not being quite agreeable to the sons of liberty, captain Sears advised general Washington to send a body of troops to secure the city; but the general General Lec. could not spare them. however, by the assistance of governor Trumbull of Connecticut, collected a body of 1200 militia for the purpose. detained at Standord, he sent a part of these on under the command of captain Sears, and followed soon after. inhabitants were greatly alarmed at their arrival, the British maval commandant having declared that he would fire the city if any continental troops entered it.

To this Lee answered, "that if the men-I mer. A bed of twenty plants is said to be of-war should set one house on fire in consequence of his coming, lie would chain a hundred of their friends together by the neck, and make the house their fu-neral pile." The 17th of March, the British having evacuated Boston, Washington despatched general Heath, with five regiments, and shortly atterwards followed, with nearly all his army, to New York. After the defeat of the Americans on Long Island, and the masterly retreat of Washington across the East river, he was obliged, by a series of operations on the part of the enemy, to retreat across Haerlem river to the continent. This left the city at the mercy of the British, who accordingly took forcible possession, which they retained until the 25th of November. 1783, when they finally evacuated it. The day has ever since been commenterated by a military procession and public rejoicings. The 4th of December following. Washington took leave of the officers of the army, at Francis's hotel. Calling for a glass, of wine, he thus addressed them - With a heart full of love and gratitude, I now take leave of you, devoutly wishing that your latter days may be as prosperous and happy as your former have been glorious and honorable," The ceremony was in the highest degree affecting, and few of the officers could refrain from tears. In 1789, the first congress, under the new constitution, met at New York, and Washington was sworn into the office of president of the U. States, by chancellor Livingston. From this period, the city, which, at the time of its surrender by the British, was estimated to contain little more than 20,000 people, has continued to advance in wealth and numbers, with a pace as steady as it has been rapid. Its history is a series of prosperity, only occasionally arrested or disturbed by those inevitable evils which every where, at times, cross the path of life; and its future prospects, like its past history, furnish abundant reasons for its inhabitants to be thankgül to Providence.

NEW ZEALAND. (See Zealand, New.) New ZEALAND FLAX. (See Flax, New

Zealand.)

: New Zealand Spinage (telrugonia expansa): a succulent trailing plant, destitute of beauty, inhabiting that country whose name it bears. It has lately been introduced into Europe, and also into America, as a substitute for spinage, over which it has this advantage, that, if watered, it will produce leaves of the greatest succulency throughout the whole sumsufficient to give a daily supply for a large

NEY, Michel, duke of Elchingen, prince of Moscow, marshal and peer of France, grand-cross of the legion of honor, knight of St. Louis, and of several orders in foreign countries, was born in 1769, at Sarre Louis, in the department of the Moselle. He was of humble origin, and, at an early age, entered the military service. From a private hussar, he rose by degrees to the rank of captain, in 1791, when his courage and military skill were observed by general Klober, who gave him the com-mand of a corps of 500 men, and, in-1796, appointed him adjutant-general. He soon surpassed the expectations which he had excited, and, in 1796, at the battle of Rednitz, was made general of Notwithstanding his rank, his brigade. impetuous courage often led him to expose his person like a private soldier. He contributed essentially to the victory of Acawied, in 1797. After a valiant defence, he was taken prisoner at Diernsdorff'; and, on his liberation, in 1798, was made general of division. As such, he commanded on the Rhine in 1799, and, by an able diversion at Manheim, contributed to the victory of Massena, at Zurich, over the Russians under general Korsakoff. Ney also distinguished himself under Moreau, particularly at Hohenlinden. In 1802, he was sent ambassador to the Helyetic republic. In 1805, he commanded in the camp at Montreuil, and was appointed by Nopoleon marshal of the empire and grand-cross of the legion of hon-He opened the campaign of 1805 against Austria by a brilliant victory at Elchingen (whence he received his title duke of Elchingen), and brought about the capitulation of Ulm. He occupied the Tyrol, and marched on to Carinthia, when he was stopped in his career by the peace of Presburg. In 1806 and 1807, he fought at Jena, and, after the capture of Magde-burg, at Eylan and Priedland. In 1808, he maintained his high reputation in Spain. Napoleon recalled him, but kept him at a distance till the commencement of hostilities against Russia, when he received the chief command of the third division of the imperial forces. At the battle of Moscow, Napoleon gave him the well-deserved title of le brave des braves (bravest of the brave). After the burning of Moscow, he led the van of the army, and, by his masterly conduct, prevented its utter destruction. On this occasion, his ability was porhaps more strik-

ingly manifested than at any former poriod. The emperor made him prince of Moscow, and Alexander confirmed the title on his visit to Paris, in 1814. In the spring of 1813, Ney reorganized the army which had conquered at Latzen and Bautzen, and marched with it to Berlin; but was met at Denuewitz by Bulow, and defeated. He was now obliged to retire to Torgau, but soon took the field again; chased the Swedes from Dessan, and fought with his wouted valor at Leipsic, where he received a wound, and after-When the enemy enwards at Hanau. tered France, he disputed every step of their progress. Brienne, Montmirail, Craorne and Chalons-sur-Marne are shining names in the history of his battles. When Paris was taken, and the emperor was vacillating, Ney was the first who ventured to suggest to him that the contest would soon assume the character of a civil war. unless it were brought to a speedy termination. Thus be had an important influence upon Napoleon's abdication. After this event, Ney took the oath of allegiance to the king, was made a peer, and received the cross of St. Lou's and the command of the cuirassiers, dragoous, chasscurs and light-armed lancers. He'enjoyed the most marked distinction at court, and appeared to be entirely devoted to the Bourbons. When Napoleon landed, or his return from Elba, Ney collected a considerable force, was appointed its commander, and, with many assurances of his zeal and fidelity to the king, marched against the favader. But, soon noticing the a ser, on of his soldiers, and their inclination for Napoleon, he regarded the cause of the Bourbons as lost; and, recciving an invitation from the late emperor, he joined him at Lyons, on the thirteem in of March, and thus opened his way to Paris. In the war of 1815, Napoleon gave him the command of his left wing, which engaged with the English at Quatre-(Bras. The charge made by general Gourgand, from the lips of Napoleon himself, that Ney's conduct in this engagement was the cause of all the disasters of the campaign, has been fully refuted by Gamot, by means of a copy of the written orders which the marshal received on that fatal day. At Waterloo, he led the attack on the enemy's centre, and, after five horses had been killed under him, remained last upon the bloody field. His clothes? were full of bullet-holes, and he fought on foot till night, in the midst of the slain. where he entered the chamber of peers,"

and publicly contradicted the assertion of . Davoust, the minister of war, that 60,000 men had arrived under the walls of Guise, declaring, in plain terms, that all was lost. On the return of the king, Nev was included in the decree of July 24, 1815. For a considerable time, he remained conrealed in the castle of a friend at Aurillac. in Upper Auvergne. During an entertainment given by his friend, one of the guests observed a splendid sabre. account of it reached the cars of the subprefect, and it was immediately recognised as the sabre of New The cestle was searched, the marshal taken, and imprisoned on the fifth of August. New might have escaped with case, but he was confident of acquittal. He was brought before a court-martial, which declared itself incompetent to take cognizance of his case, on the tenth of November. His trial was therefore referred to the chamber of peers, where the minister, the duke de Richelieu, was eager for his punishment, His advocate was Dupin. The twelfih article of the capitulation of Paris, signed July 3, 1815, promising a general annesty, was quoted in his favor; but Wellington affirmed that this was not the true construction of the article. Notwithstanding the remonstrances of marshal Dayoust, who had made the treaty, and who ex-plained it in favor of Ney, he was senteneed to death on the eighth of December, by 169 votes against 17. With the calmness which had distinguished bim through the whole trial he listened to the sentence; but when the person who read it came to his tide, he interrupted him-" What need of titles now? I am Michel Ney, and soon shall be a handful of dust." When the assistance of a priest was offered him, he replied, "Nuced no priest to teach me how to die; Nuve learned it in the school of battle." He permitted, however, the curate of St. Suppose to accompany him tathe scatiold, and compelled him to enfor the carriage first, saying, "You mount before me now, sir, but I shall soonest reach a higher region." On the seventh of December, 1815, at nive o'clock, A. M., he was shot in the garden of Luxemburg. When an attempt was made to blindfold him, he tore away the bandage, and indignantly exclaimed, "Have you forgotten that for twenty-six years I have lived among bullets?" Then, turning to the soldiers, lie solemnly declared that he had never been a traitor to his country, and, laying his hand upon his heart, called out, with a After the defeat, he returned to Paris, steady voice, "Aim true. France forever! where he entered the chamber of peers, Fire!" Marshal Ney left four sons, one

of whom has since married the daughter :of the famous banker Laffitte.

NIAGARA; a township of Niagara county, New York, on the river of the same name. It embraces Niagara falls and Manchester village. At this village there is a post-office; and it contains a spacious hotel for those who visit the falls.

NIAGARA FALLS are situated on Niagara river, about equidistant between lakes Eric and Ontario. They have already been described in this work, under the nrticle Cataract. Whoever notices the structure of the land between the two lakes, must be convinced that the falls have greatly receded from their former position. Lake Eric is 334 feet higher than lake Ontario. The land does not gradually slope to the northward to make this descent, but stretches in broad plains, and descends by precipices. The last and principal of these abrupt declivities is at Lewiston, eight miles from the cataract; and here must have been the original site of the cataract, although we cannot tell how long ago the river began to cut this vast chasm, nor how long it will require to extend it to lake Erie. The waters of the Niagara are usually frozen over during a part of the winter, except at the falls, and where the rapids are most violent. Then may be seen my riads of wild ducks lighting upon the foaming stream above the falls, and descending on the smooth sheet of the cataract until it reaches its extreme circular verge, at about half its descent; then, taking wing, they wheel round to the same place on the rapids, and again repeat their defiance of the terrors of the cataract.

NIAGARA RIVER, between New York and Upper Canada, runs from take Eric into lake Ontario, and thus connects the St. Lawrence and lake Optario with the upper lakes. Its length thirty-six miles; its breadth is from balf a mile to seven miles. within it. At Black Rock, two miles from lake Erie, the river is three fourths of a mile wide; and this is its breadth at the falls. It affords a great variety of fish, such as sturgeon, bass, muscanunge, or muscalunga; and salmon-trout are numerous below the falls. The white-fish, weighing from two to five or six pounds, are taken in seines, from October to May. It is a most delicious fish, and is said to be peculiar to this river and the great lakes. From fort Eric, on the Canada shore, at the cutlet of lake Erie, to Chippeva (18 miles), the bank is from four to ten feet high. From Chippewa to the great

fall, two and a half miles along the Canada shore, there is a descent of 92 feet, and the bank is from 10 to 100 feet high. The river is here so rapid that it is always covered with a white foam. From the cataract to Lewiston is seven miles: and near this place the bank is 310 feet high, composed of strata of soft mud and sand, clay, gypsum, slate, limestone, and a superstratum of earth. From Lewiston to lake Ontario is seven miles, and in this distance the Northern Terrace, or Mountain Ridge, crosses the course of the river. The height of the bank then diminishes to twenty-five or thirty feet. The whole descent of the river, and thus the difference of level between the two lakes, is 334 feet.

NIBELUNGENLIED (i. c. song of the Nibelungen); an ancient German epic, little known to American and English readers, but ranking, in our opinion, among the noblest works of imagination. We shall therefore treat of it at considerable length, and compare it, in closing, in some of its most striking points, with the Had. The name Nibelungenlied is derived from Nibelungen, or Niflungen, an ancient and powerful Burgundian tribe, the name of which, in all probability, may also be founded on the ancient mythical ideas of a Nebelland (land of mists), in the Others derive the name from North. Nibullunan (intropid); and others still from the Ghibelines. (q. v.) The subject of this great epic is the dreadful fate of this tribe, caused by the passion of two princely pairs. The one pair is Siegfried. son of king Sigismund of Santen on the Rhine, and Chriembild, sister to Gunther, king of Burgundy; the other is Günther and Brunhildis, a heroine of the fabulous North. Siegfried—as noble a hero as ever was depicted-is beloved by Chrienihild. Her brother Günther is enamored of Brunhildis of Iceland. But the fair Several islands are embraced year only be won by force. A successful. At Black Rock, two miles from suitor must conquer her in combat. Gunther promises Siegfried his sister's hand, if he will aid him in gaining Brunhildis. Siegfried conquers the martial maid by means of his magic cap, which makes him invisible, and increases his strength twelve fold, and gives her to Günther. She afterwards has 'a struggle with Günther, in . which she overcomes him. Siegfried a second time reduces her to submission, and takes from her her girdle and ring, in which lay her power. These he gives to Chriemhild, who, in a subsequent quarrel with Brunhildis, shows her these trophies of her defeat. Brunhildis resolves on

vengeance, and persuades Hagen of Tronege to murder Siegfried, which he effects, with the privity of Gunther. Chriemhild, bent, in her turn, on vengeance, marries the heathen Etzel (Attila, king of the Huns, a mythological personage, who appears in various stories. under several modifications); invites the Burgundians to the court of Etzel; involves them in strife with the lluus, and, after several bloody battles, both parties are destroyed. Gunther and Hagen, the sole survivors, are taken prisoners by Dietrich of Bern, and put to death by Chriem-This poem thus becomes most tragical. The closing scene of the tragedy is delineated with unrivalled power by Peter Cornelius (q. v.), in the plate which forms the frontispiece to his engravings illustrative of the Nibelangenlied. The developement of character, in the progress of the story, is remarkable. Chriemhild, the lovely mistress of Siegfried, becomes, in the course of the epic, altogether revengeful and inplacable. Her thirst for vengeance drives her even to marry a foreigner and heathen, merely to obtain the means of destroying the race of Günther; and we become somewhat reconciled to Hagen, the murderer of Siggfried, by his inflexible devotion, on all occasions, to the will of his sovereign kuly Brunhildis—a devotion which feudal times esteemed so highly. The time in which we find the historical basis of this tragedy is about 430, or 440, A. D.; the scene is on the Rhine, and on the frontiers of Austria and Hungary. The poem of the Nibelangen, after having been long forgotten, appeared again to delight the lovers of true poetry and of German antiquities. It is founded on original sagas, varausly interwoven with each other. which have come down to us, and of which we find Scandinavian modifications in the Edda, the Wilkinasaga, and the Niflungasaga. It belongs to the same heroic age with the Heldenbuch. (q. v.) The Nibelungenlied seems to have undergone several remodellings, at different periods. These are generally considered to be four. As the poet who gave it its present shape has not disclosed his name, and as no information exists respecting him, liothek. conjectures have been divided as to who he was. From the author's geographical knowledge being most accurate in regard to the south-castern part of Germany, and from his decided predilection for Hunga-· ry, and his dislike towards Bavaria, as well as from his flattery towards the house of Babenberg, A. W. Schlegel is inclined to 24 VOL. IX.

believe that Klingsohr of Hungary, or Henry of Ofterdingen,-both of whom were present at the great poetical contest at the court of the landgrave Hermann, at Wartburg (q. v.), in 1207,—is the author. The metrical form of this poem is the strophe, of four iambic and trochaic lines, in rhymed couplets, and admitting of the chief accout being put in six different places; also with spondaic, unapestic and dactylic rhythm, and a female cassura in the middle. That part of the poem entitled the Lament (Dic Klage) is undoubtedly the production of a later age, and is in a different form. Besides several fragments, there have been preserved six manuscripts of the Nibelungenlied, of which that of St. Gall is the oldest. was the first who published the whole pocm in his collection. Von der Hagen first gave a translation of the Nibelungenlied, and, in 1810, a critical edition of the original, at Berlin. After this, he published, in Breslau (1820), the Song of the Nibelungen for the first Time in the oldest Form, from the Manuscript of St. Gall, with a Comparison of the other Manuscripts. The second edition, with a dictionary and notes, was published at Frankfort on the Maine (1824), in two volumes. To the works on this poem belong Göttling's Ueber das Geschichtliche im Nibelungenliede (Rudolstadt, 1814), and his Nibelungen und Gibellinen (Rudolstadt, 1816); Charles Lachmann, Ucher die ursprüngliche Gestalt des Gedichts von der Nibelungen Noth (Berlin, 1816), and the edition of the poem itself by the same. There is also an edution by Hinsberg; an unsuccessful translation, in prose, by Zeune; a metrical translation, carefully following the original, by Büsching (1815); and one by Simrock (Berlin, 1827).—See A. W. von Schlegel's opinion, in the Deutsches Museum (i. 67); Mone's Einleitung in das Nibelungen-Lied (Heidelberg, 1818); Von der Hagen Die Nibelungen, ihre Bedeutung für die Gegen-wart und immer, (Breslau, 1819); his preface to his edition and translation of the Edda Songs (1812-1814), and of the Wolsungasaga (1813—1815).—See also. Grimm's Anmerkungen zu den altdunischen Heldenliedern, and Müller's Sagabib. The language of the Iliad is, in our opinion, superior to that of the Nibelungenfied, both as to the idiom itself and the mastership with which the Greek poet wields it, though the German epic has a childlike and venerable simplicity. On the other hand, the plan of the latter appears to us vastly superior to that of the former. It is a great plan, from begin-

ning to end, and embraces a whole event; the Iliad but a part of an event; though we do not deny a unity of plan to the · Greek poem, whether this was original, or only the work of a laterage, which joined together disconnected rhansodies. heroes of the Nibelungenlied deserve the name for their characters, as well as their deeds. Characters are developed in this poem as in a drama of Shakspeare, whilst we find little of this in the Had, excepting, perhaps, in the case of Achilles. The difference, too, between the chief heroes of the two poems, is striking. Achilles is a grand, but a wilful and violent character, whilst Siegfried is noble in action, pure in soul, and full of love. In both poems, the chief hero appears but for a short time. The Iliad does not bring him prominently forward till late in the action, while the Nibelangenlied soon removes him from the stage; yet, in both poems, the whole action turns upon this individual. The Iliad celebrates friendship, in the instance of its first hero, as one of the highest blessings of mortals; in the other epic, secondary heroes illustrate the beauty of this connexion. In the former, the world of gods is an essential element of the whole poem; in the latter, this element is entirely wanting. The Hiad abounds in descriptions of scenes and actions; the Nibelungenfied describes but little; yet German painters, of the first rank, justly consider this epic as of a plastic character throughout. The rhyme in the German poem would, of itself, prevent so easy a flow of narrative as distinguishes the Homeric epic; yet it never misleads the German poet into affected point or rounded phrase, such as we so often meet in the more modern poems; for instance, in Tas-The origin of the whole catastrophe, in both poems, is love; but what a difference is there in the love depicted, and the use made of it, in the two poems! The lover in the Had appears like a boy, who is very properly scolded for his impetuos-ty by his relations. The love of Siegfried is of the noblest kind-the love of a hero. In the Iliad, love soon ceases to be the prominent agent; in the Nibelungenlied, it is throughout the source of the action. The Hiad ends early, and does not even carry tis to the death of Achilles, which the poem predicts, in so many passages, as near; nay, for which it prepares us in that charming passage in which Patroclus requests his friend to let the ashes of both repose in the same urn. The poet seems to be afraid of becoming too trugical. The Nibelungenlied exterminates a whole

tribe, leaving only a few to mourn the tragic end: and what a scene of mourning! how simple and solemn! Both the poems, with the simplicity of early times, describe the approach of all important events, and the reader is never surprised by unexpected turns; but the interest is not lessened by this. Homer appears individually in his poem much more than the poet of the Nibelungen, as, for instance, in his frequent appeals to the muses for assistance, and in the epithets which he gives to each hero, and which recall to the mind of the reader the idea of an observer and narrator. The German poet never appears himself; he neither gives epithets to his heroes, nor im-The great plores heavenly assistance. tragedy unfolds without visible interven-tion. We do not mean that Homer protrudes himself, like the second-rate poets of our day, but that the author is not kept so entirely out of sight in the Greek epic as in the German. The genius of the poet, or poets of the Homeric songs appears mostly in the narration, the conception of the plan being not remarkable, and the characters having little heroic about them, except the mighty force with which . they hurt their spears, and requiring continually the direct interference of the gods. Padas must take the reins, Apollo interpose his shield, &c. It is therefore the story which delights in Homer. In the Nibelungenlied, the greatness of the poet appears more from the plan, and the masterly manner in which the characters are brought out and sustained, and less in the description and narraine. Yet how full of life, how clear every thing happens bofore you! If we include, in our comparison, the Odyssey, we may say that both the Greek and the German poets make a grave impression. A whole heroic race perishes in the latter; and, after having read it through, you feel, for a moment, inclined to ask, Why did the world continue to roll on? Such a tragic picture of life leaves a different impression from the Greek poet's dark views of human destiny, as shown, for instance, in Ulysses's visit to the departed. How disheartening is the effect of the scenes of pining discontent Avhich he meets there! a life of labor succeeded by an eternity of gloom. Listen to Achilles's confession in the realm of the dead.

NICANDER, a learned Greck physicianand poet at the court of Perganus, about 160 years B. C., was born, according to some accounts, at Colophon. Two of his poems are still extant—Theriaca, upon

poisonous animals, and the remedies against their bite; and Alexipharmaca, upon antidotes in general. Both are importunt in natural history. The best editions are those Gorraus (Paris, 1557, 4to.), of Salvinus (Florence, 1764), and of J. G.

Schueider (Halle, 1792).
NICALAGUA; one of the states of the Guatimalcan confederacy (see Central America), lying between the Caribbean sea on the cast, and the Pacific on the west, the state of Honduras on the north, and that of Costa Rica on the south. The chief place is Leon, about thirteen miles from the Pacitic (32,000 inhabitants), situated on a lake of the same name, which communicates with the lake Nicaragua. population of the state in 1824 was about 175,000. The soil is fertile in tropical fruits, cocoo, sugar, indigo, cotton, linen, &c. The country is well wooded, and the forests yield valuable dye-woods and gums. Silver mines, and the gold of the rivers, furnish the inhabitants, who are very ingenious in goldsmith's work, with the materials for their trade.

NIÇARAGUA, LAKE; a large fresh water lake in the state of the same name, 120 miles in length by 41 in breadth, of great depth, and navigable for the largest vessels. It enters the Caribbean sea by the river S. Juan, which is sixty-four inites long, and receives the waters of lake Leon, which is ten miles to the north-west, by a navigable river. 'The Leon is but thirteen miles from the Pacific, and but five from the river Tosta, which enters that ocean. A union of the two oceans by means of

these - ha-nels is contemplated,

NICARAGEA WOOD, a kind of dyewood, of a bright red color, brought from the state of Accaragua (q. v.), is thought to be a species of the Casalpina, and resembles Brazil wood (Casalpina cchinata) in its properties, but yields a smaller

amount of coloring matter.

NICE, or NIZZA; principal town of the county of the same name, belonging to the duchy of Piedmont (1378 square miles, 125,000 inhabitants), situated at the foot of mount Montalbano, not far from the entrance of the Poglione into the Mediterranean. The town has a fortified port, and 19,700 inhabitants, who prepare to- the figures to the niches. bacco, silk thread, liqueurs, perfumery and essences. The buildings and streets of the new town are fine, whilst the old town has dark, crooked, dirty streets, and dark, misshapen houses. The town and the environs, where also the ruins of a Roman amphitheatre are to be seen, are celebrated for a pure, healthy air, and great mildness

of climate, even in the middle of winter. which mildness proceeds from the situation of the northern mountains. are connected with the Alps, and protect the country from storms. For this reason it is resorted to ; the air is so clear, that in good weather the mountains of Corsica are visible. The town has a considerable commerce, particularly in raw spun silk, some oil and flowers, which, in winter, are sent to Paris, and even to London.

NICE (Nicaa), formerly a considerable city of Bithynia, in Asia Minor, of which some ruins yet remain. A part of its former site is now occupied by the small village of Isnik. Nice is celebrated for two ecclesiastical councils held there. The first was convoked by Constantine (q. v.) the Great, in 225, chiefly, with the purpose of settling the Arian controver, sies. His personal influence, and the cloquence of Athanasius (q. w), obtained the condemnation of Arianism by 318 bishops. (See Arians.) Among the twenty canons of this council, the most important is the confession, hence called the Nicene creed, based on the Apostles' creed, and, with the Athanasian creed, still received by the larger part of the Christian world. (See Cred.) The celebration of Easter on the same day throughout Christendom, and some points of church government, &c., were also regulated by the same council. The proposition to enforce the celibacy of the clergy was rejected, and permission was granted to married elergymen to retain their wives. The second council was convened by the empress Trêne, in 787, and, in opposition to the iconoclasts (q. v.), determined, that although divine honors were not to be paid to images, they were to be honored by kissing, genu-flexions, incense, and burning of lights. The preservation of relies in the churches was also ordained.

NICENE CREED. (See Creed, and Nice.) Nicue (Italian nicchia, a shell); a cavi-, ty or hellow place in the thickness of a wall, to place a figure or statue in. Niches are made of all segments under a semicircle; they are sometimes also square. Care must be taken to proportion the niches to the figures, and the pedestals of

NICHOLAS I, Paulowitch, present emperor of Russia, was born July 7, 1796, succeeded (1825) his brother Alexander I; Caesarowitsch Constantine (died 1831), his elder brother, had renounced. his claims in his favor, in December, 1825. He was married, July 13, 1617, to Alexandra l'eodorowna (formerly Charlotte), princess of Prussia, born July 13, 1798. He has six children. Alexander, the eldest, and heir apparent, was born in 1818. The history of Russia, under his reign, is to be found under Russia.

NICHOLAS, ST., bishop of Myra, in Lycia, was born at Patara, and raised to a bishopric by Constantine the Great. He was remarkable for his piety and charity. He was also considered the patron of virgins and of senfaring men. The Dominicans adopted him as their tutelar saint. and the Russians hold his memory in great veneration. He died about 392. Gadshill, in the first part of Henry IV, uses the term St. Nicholas's clerks, as a cant phrase for highwaymen. Warburton remarks upon this expression, that St. Nicholas is the patron of scholars, who are thence called St. Nicholas's clerks, and as Nicholas, or Old Nick, is a cant name for the devil, Gadshill equivocally calls robbers clerks of St. Nicholas. See also his note, to the same effect, on a passage in the Two Gentlemen of Verona (act iii, sc. 1). Grey further remarks, that robbers are called St. Nicholas's knights.

Nichols, John, fellow of the antiquarian societies of London, Edinburgh and Perth, and for nearly half a century editor of the Gentleman's Magazine, was born at Islington, 1714, and, having received a liberal education, he became at an carly age an apprentice to Bowyer, the learned printer. He was subsequently admitted into partnership with his master, on whose death he succeeded to the management of one of the first typographical establishments in London. In 1778, he became coadjutor with David Henry, in the publication of the Gentleman's Magazine; and, on the decease of that gentleman, the duties of editor devolved on Mr. Nichols. Among his numerous publications may be mentioned, Anecdotes, literary and biographical, of William Bowyer (1778, 8vo.), which formed the basis of his Literary Anecdotes of the Eighteenth Century (9 vols., 8vo.); Illustrations of the Literature of the **Eighteenth Century** (6 vols., 8vo.), supplementary to the preceding work; and the History and Antiquities of Loicestershire (folio). He died in 1826.

Nicholson, James, an American naval officer, was born in Chestertown, on the eastern shore of Maryland, in the year 1737. His ancestors were among the first and the trespectable settlers of that provinces. Having a predilection for the life of a sailor, he, and two brothers who were afterwards commanders in the American navy, were trained to the sea. This occu-

pation he followed until the year 1763. at which time he married, and settled in the city of New York, where he continued to" reside until 1771. He then returned to his native province, and lived on the eastern shore of Maryland, until the period of hostilities between Great Britain and her colonies in America. At that time, the English privateers captured many trading vessels on the shores of the Ches-The government of Maryland apcake. therefore built and equipped a ship of war, which they named the Defence, and put under the command of Nicholson, who recaptured, in March, 1776, several vessels which had been taken by a British ship called the Otter. In 1778, the command of the Trumbull, a frigate of 32 guns, was given to captain Nicholson. June 2, 1780, a severe and close engagement took place between the Trumbull and a British frigate, called the Wyatt. The engagement continued for three hours, at the end of which time the damaged condition of the Trumbull's masts induced Nicholson to draw off. The Trumbull had eight men killed and twenty-one wounded, nine of whom died after the action. crew consisted of only 199 men at the commencement of the action. This action, next to the engagement of the Richar I and Scrapts, is supposed to have been the most severe during the war. The Trumbull was afterwards taken by an English frigate and ship, and carried into New York. At the close of the revolutionary war, captain Nicholson was released from continement, but continued to reside in New York with his family. He died in September, 1800.

Nicholson, William, an ingenious writer on mathematics, natural philosophy and chemistry, was born in London, in 1758, and went to India, when young, in the maritime service. In 1776, he became agent on the continent for Mr. Wedgewood, and afterwards settled in the metropolis as a mathematical teacher. He took out patents for various inventions. and published a Journal of Natural Philosophy, Chemistry and the Arts, which was continued for several years. His works are principally compilations, but executed with judgment. Among them are, an Introduction to Natural Philosophy (1782, 2 vols., 8vo.), Dictionary of Chemistry, &c. Mr. Joyce (died 1816) is said to have been the principal editor of the Encyclopædia published under the name of Nicholson. who is understood to have had but little. concern in the work, except as an occa-

sionel contributor

NICKEL; a metal whose distinct charactor was suspected by Cronstedt in 1751. and fully ascertained by Bergmann in 1775. The ore in which it was first found, and from which it is principally obtained at present, is the Kupfer nickel, or sulphuret of nickel, mixed also with arsenic. iron and cobalt. The pure metal and its preparations are obtained from this mineral, or from the artificial arseniuret called speiss, a metallurgic production derived from the reasted ores of cobalt. The most convenient method for obtaining the metal is that in which the speiss is employed, and was suggested by doctor Wollaston. Sulphuric acid is added to the pulverized speiss, and nitric acid, also, at intervals, in the proportion of about one fourth part; a green solution is formed, and after a subsidence of several hours, the green, supernatant liquid is decanted and evaporated until crystals of sulphate of nickel are deposited: a further evaporation gives a crust of arseniate and sulphate, which is dissolved in water, and agitated by a current of sulphureted hydrogen until pre-The fluid is filtered cipitation ceases. again, and more of the apple-green matter obtained by evaporation, which, when redissolved, becomes opaque, owing to the precipitation of arsenious acid. The thiid is again-filtered, evaporated, and suffered to crystallize, when the sulphate of nickel may be relied upon as being entirely pure. This sulphate, being again dispolved, is decomposed by carbonate of soda, and the resulting carbonate, made into balls with oil, and surrounded with chargoal in a crucible, and being heated in a melting furnace for two hours, yields a pure button of næke. Its color, in this condition, is between that of silver and tin; and when polished, its lustre is equal to that of platinum. It is mallcable, and can be forged into bars when hot, and hammered into places when cold; specific gravity, when east, is 8.102, and when forged, 8.66. It is capable of being drawn into very fine wire. It is less tusible than iron. covered crucible, some of it is volatilized, and appears in drops on the cover of the crucible. It is attractable by the magnet nearly in the same degree as iron; and becomes itself a magnet by touching, hammering, &c. As nickel does not rust, it has a very great superiority over steel in the construction of a compass. are two oxides of nickel-the dark ashgray and the black. If potash be added to the solution of the hitrate or sulphate, and the precipitate dried, we obtain the protoxide. It may be regarded as a com-

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pound of about 100 metal with 28 oxygen. The peroxide was formed by Thenard, by passing chlorine through the protoxide diffused in water: a black insoluble peroxide remains at the bottom. Its color is a brilliant black. When heated, it loses. oxygen, and becomes protoxide. Sulphuret of nickel, prepared directly from its elements, is of a yellow color, like iron pyrites, and brittle. It consists of 70 nickel and 30 sulphur. Chloride of nickel is prepared by evaporating the muriate to dryness. It is of a yellow-green color, and is a protochloride. When calcined in a retort, one portion, of an olive-green color, remains inthe bottom of the vessel, while another sublimes, and crystallizes in small, light, brilliant plates of a gold-yellow color; these are the deutochloride. An iodide of nickel may be obtained by heating iodine and nickel in a tube. It is a brown substance; fusible; soluble in water, to which it imparts a light-green color. The salts of nickel possess the following general properties: They have usually a green color, and yield a white precipitate with ferroprussiate of potash. Ammonia dissolves the oxide of nickel. Sulphureted by drogen and infusion of galls occasion no precipitate. The hydrosulphuret of potash throws down a black precipitate. Their composition has been very imperfeetly ascertained. The sulphuric and muriatic acids have little action upon Sulphate of nickel crystallizes nickel. very readily. Its primary form is a right square prism. The nitric and nitro-muriatic acids are the most appropriate solvents of nickel. The nitric solution is of a pure green color. Carbonate of potash throws down from it a pale apple-green precipitate, which, when well washed and dried, is very light. When ammonia is added in excess to a nitric solution of nickel, a blue precipitate is formed, which changes to a purple-red in a few hours, and is converted to an apple-green by an acid. The alloys of nickel with other metals are unimportant. With gold, in the ratio of 20 grs. to 1 oz. nickel, a brass-colored brittle compound is formed. With iron it unites in every proportion. If nickel prevails, the metal is white, and the ductility and magnetism are equal to that of iron. It does not, amalgamate with mercury. Pure nickel being dear and rare, it is entirely unknown in common life, and almost so in the arts. It would undoubtedly be applied to useful purposes if it could be found in sufficient quantity. The ores of nickel are not numerous. They consist of native nickel, arsenical nickel, and

nickel echre. Native nickel is found in E. lon. They yield cocoas, plantains, delicate capillary crystals, of a metallic teak, sassafras, pine-apples. The thick delicate capillary crystals, of a metallic lustre and brass-yellow color. According to Arfredson, it consists of 64.35 nickel and 34.26 sulphur. Before the blow-pipe, formed a settlement here in 1756, but it melts into a brittle metallic globule, colors glass of borax violet-blue, and is dissolved in nitric acid without leaving a residue. It occurs at Johanngeorgenstadt in Saxony, Joachimsthal in Bohemia, and in the Westerwald. It has sometimes been called capillary pyrites. Arsenical nickel, or kupfer nickel, occurs reticulated, dendritic and botryoidal, but more commonly massive. Cleavage unknown, imperfect; fracture small conchoidal, uneven; surface smooth; lustre metallic; color copper-red; streak pale, brownishblack; brittle; hardness above that of fluor; specific gravity 7.65. It consists of nickel 44.20; arsenic 54.72, with small proportions of iron, lead, cobalt and sul-Before the blow-pipe, it melts upon charcoal, and emits an arsenical It chiefly occurs in veins, often sincil. accompanied by ores of silver and lead. In undergoing natural decomposition, it is sometimes covered by an apple-green, friable substance, which is called the nickel ochre, and which consists of 37.35 oxide of nickel and a little cobalt, of 36.97 arsenic acid, and 2132 of water. Arsenical nickel is found in veins, at Schneeberg, Freiberg, and several other places in Saxony; also in Bohemia, Thuringia, Hessia, Dauphiny, Cornwall. It has been met with also in the U. States, at one locality, Chatham, Conn., associated with arsenical cobalt. Mr. Dobereiner has observed that the metallic alloy, consisting chiefly of arsenic and nickel, which is obtained from the process of fabricating smalt, often crystallizes in four-sid d tabular crystals, and is in every respect similar to arsenical nickel.

NICROJACK CAVE. (See Cave.) NICK, OLD; the devil. Butler sportively derives this term from Nicholas Machi-

avelli :

Nick Machiavel had ne'er a trick (Though he gave name to our Old Nick) But was below the least of these. Hudibras, p. iii. c. 1. l. 1314.

But it was in use among the English writers before the time of Nick Machiavel, and is derived from our Saxon ancestors, who called the devil Old Nick, or, probably, from the northern sea-god, or evil spirit of the waters (Nicken)

NICOBAR ISLANDS; a group of ninetcen islands in the bay of Bengal, between 6° 45′ and 9° 15′ N. lat., and 93° and 95°

teak, sassafras, pine-apples. forests and heavy dews render the climate unhealthy for foreigners. The Danes were obliged to abandon it, on account of the mortality among the colonists.

NICODEMUS; one of the leaders of the Pharisees, who is represented in the gospel as a ruler of the Jews. He went to Jesus by night to receive the instructions of a teacher whom he believed to come from God, and afterwards defended him openly before the Pharisecs, and assisted Joseph of Arimathea in paying the last honors to their divine Master. Nicodehonors to their divine Master. mus was afterwards deprived of his dignities, driven from the synagogue, and banished from Jerusalem by the Jews. A spurious gospel, called the Acts, is ascribed

NICOLAL Christopher Frederic; a German author and bookseller of some note in the history of German literature, as the founder of the Allgemeine Deutsche Bibliothek, which contributed essentially to promote a critical spirit in Germany. Nicolai was born in 1733, in Berlin. His father, a bookseller, educated him strictly. In 1749, he was sent to Frankfort on the Oder, in order to learn the book trade, and, by the greatest industry and econo-. my, was enabled to study several sciences and languages in the then existing university of Frankfort. In 1752, he returned to Berlin, and wrote his Letters on the Present State of Belles-Lettres, in 1756. He soon united with Lessing and Mendelssohn, and the three pursued their labors for the advancement of literature, without submitting to the existing rules of taste. In 1759, supported by other . literati, they began their Letters on the most recent German Literature (24 vols., Berlin, 1759 to 1765). In 1765, Nicolai executed his plan of the General German Library—a critical work, which was continued forty years, and had an important influence upon German literature. Nicolai ceased to edit it at the end of the 107th volume, in 1792. The severity of this work, in which the criticisms were written in a cold, prosaic tone, involved him in many disputes; among others, with Wichard, Fichte, Herder, and Lavater. After 1770, he devoted himself to the study of the finances and commerce of Prussia. He published Anecdotes of Frederic the Great and the Persons around. him, in six numbers, from 1788 to 1792, which have historical value. His Topographical and Historical Account of Ber-

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lin (third edition, Berlin, 1786, 3 vols.) is an excellent work. His novels have little merit, yet his Life and Opinions of Sebaldus Nothanker (fourth edition, 1799), with engravingsby Chodowiecki, was translated into French, Danish, Dutch and Swedish. His Journey through Switzerland and Germany-a work containing much statistical information, and written in a bold tone-amounted, in 1796, to twelve volumes. Fichte attacked him in his Fredcric Nicolai's Life and strange Opinions, edited by A. W. Schlegel (Tubingen, 1801). Nicolai often misunderstood the direction of the public mind in Germany; and this was the case when that bright star appeared on the horizon of German literature-Göthe. He also attacked Kant's philosophy. 1791, some causes which violently agitated his mind produced such an effect on his nerves, that for several weeks he appeared to himself continually surrounded with beings, whom he distinctly knew, however, to be mere creations of his imagination. He died in 1811. He wrote many eulogies, and other works not enumerated here, on Freemasonry, the Templars, &c. Göckingk wrote his Life published in 1820.

NICOLAITANS, according to the general and literal explanation of the passage in the Apocalypse (chap. v. 6), where they are mentioned, and according to the statements of the fathers Irenaus and Clement of Alexandria, were heretics, who extended, in the first century, over Asia Minor and Syria. Nicholas of Antioch, mentioned in the Acts of the Apostles as one of the seven deacons at Jerusalem, is said to have given rise to this sect, by the perversion of his advice to ...buse the flesh; i. c. to suppress sensual feelings, which was interpreted by some in a sense directly contrary to his intention. These indulged in pagan sacrifices and the pleasures of sense. This sect, if it really existed, which is doubted by several, soon perished. The Gnostics (q. v.) may have received among them the remains of the sect. The same name was given to the followers of the Anabaptist Nicolai.

NICOLAUS PISANUS, of the city of Pisa; the first true restorer of sculpture and the fine arts in Italy, in the thirteenth century. His principal work, in Bologna, is the Arca di S. Domenico, with tine reliefs. He also ornunented the basilica of St. John, erected in Pisa, in 1153, with fine sculpture. He died in 1275. first period of the history of revived sculpture is dated from his time to that of compositions, none was more popular than Donatello. His son John was also an able sculptor (magister la pidum). Works of

merit executed by him are to be seen in the mausoleum of Benedict XI, and at the altar of the cathedral at Arezzo.

NICOLO, properly NICOLO ISQUARD, one of the most favorite theatrical composers of France, was born at Malta, 1777. His father, who was chamberlain to the grand master, paid great attention to the education of his children, and had several of them brought up in France. Constant de Campion, commander of the order of Malta, placed young, Isouard at a school in Paris, where his father intended that he should prepare himself for the His leisure was devoted to the pianoforte. He had already entered the navy as a midshipman, when the commencement of the revolution induced him to return to Malta (1790). Although his father now destined him for the commercial career, he still continued to study music with great success, and even became acquainted with counterpoint. From Malta he went to Palermo, where he spent some years as clerk in a counting-house, and employed his leisure hours in the study of music. He went afterwards to Naples, where he completed his study of The famous the art of composition. Guglielmi instructed him in dramatical composition. He now determined, against the wish of his parents, to devote himself entirely to his favorite art, and wrote his first opera at Florence-12 drviso ai Maritati-the favorable reception of which confirmed him in his determination. However, out of regard to his parents, he published his works under the name of Nicolò only, not adding his surname until some time afterwards, in Paris. He next composed the serious opera of Artaserse, The grand master of the at Leghorn. order of Malta appointed him organist of the church of the order, after the death of the famous Vincenzo Alfosso, and chapelmaster of the order, which situation he held, until, on the arrival of the French in Malta, the order was abolished. He still remained at Malta, where he wrote some small French operas, which were translated into Italian—Il Tonneliere; L'Improvvisata in Campagna; Il Barbiere di Seriglia. When the French evacuated Italy, general Vaubois took him to Paris as his private secretary. Here he formed himself on the compositions of Monsigny and Gretry, and connected himself with the dramatic writer Etienne. Both wrote with case and rapidity. Of all Nicolo's the opera of Cendrillon, which was first produced at Paris, in 1810, and repeated

in succession a hundred evenings—a result which is unparalleled in the annals of the théatre de l'opéra comique. This was followed by Joconde; and these two operas brought him in 160,000 francs. Amongst. his other compositions are Un Jour à Paris, La Ruse Inutile, L'Intrigue aux Fenctres, Les Rendez-vous bourgeois, and the pretty opera of Jeannot et Colin. this light dramatical composition, Isouard is distinguished for the ease and sweetness of his melodies, the fertility of his imagination, and the happy combination of the modern Italian school with the French. He died at Paris, 1818, leaving his opera Aladin, ou la Lampe Merveilleuse, untinistied.

NICOMEDES; the name of four kings of Bithyaia, the third of whom was engaged with the Romans in the war with Midridates the Great, king of Pontus. He was intimate with Julius Cresar when young, which drew upon the latter much censure.

NICOMEDIA; the chief city of Bithynia, named after its founder, Nicomedes the

First.

Nicopolas (city of victory); the name of many ancient cities; of two in Egypt and two others in Mesia and Dacia. One of the most celebrated is that in Epirus, built by Augustus, in commemoration of his victory over Anthony, at Actium (q. v.), which made him master of the Reman empire. Ruins of this city are still to be seen near Prevesa .- Nicopolis, in Bulgaria, the chief place of a Turkish sangiacat, 164 miles west of Adrianople, 276 northwest of Constantinople, with 10,000 inhabitants, was built by Trajan. It lies on the right bank of the Danube, and is a place of considerable trade. Bajazet, the Turkish emperor, gained a victory here over Sigismund, king of Hungary, in 1306. Lat. 43° 45' N.; lon. 24° 8' E.

Nicor, John; born in 1530, appointed, by Francis II, French ambassador at the court of Portugal, where he was presented with some seeds of the tobacco plant, which he introduced into France. The botanical term for tobacco (nicoliana) is

derived from his name.

NICOTINE; a peculiar principle obtained from tobacco. The following process is adopted for obtaining it in a state of purity. Boil twelve pounds of dry tobacco leaves in water acidulated with sulphuric acid; evaporate and treat the extract with alcohol diluted with a ninth part of water; add a little water to the solution, and distil; add hydrate of lime to the aqueous residuum, and redistil. The product being mixed and agitated with

ether, the latter is to be poured off, and a. fresh portion added. All the ethereous solutions are to be united, and put in contact with muriate of lime, which will take away the water.; and the concentrated othercous solution, being evaporated or distilled, will leave 100 grains of reddish nicotine. It is liquid at 21° Fahrenheit; its odor resembles that of dry tobacco; its taste is very acrid, burning, and durable. It is denser. than water, volatilizes in the air, and boils . at 417° Fahrenheit. It dissolves in water in all proportions, and the solution has an alkaline reaction. When dissolved in alcohol or other, and exposed to heat, it does not distil with their vapors. Acids take the nicotine from the ethereous solution, and form salts insoluble in other. It is eminently poisonous.

Nictiviving Membrane, in comparative matomy; a thin membrane, chiefly found in the bird and fish kinds, which covers the eyes of these animals, sheltering them from the dust, or from too much light, yet is so thin and pellucid, that they can see pretty well through it.

Niebelungenlied. (See Nibdungen-

lied.)

NIEBURR, Carstens, born at Lidengworth, in the province of Hadeln (Hanover), in 1733, was the son of a peasant, and his youth was passed in the usual manner of a person of his condition in life. A lawsuit having orisen in his native province concerning the superficial area of a farm, no surveyor was to be found in Hadeln, and Niebuhr immediately resolved to apply himself to the art. At the age of twenty-two, he went to Hamburg for the purp se of studying geometry, and the most indefatigable exertion was hardly sufficient to enable him to follow the lessons of the gymnasium. He then devoted several years to the study of the mathematics at Gouingen. Bernstorff, Danish minister, having determined to send a scientific expedition to Arabia, Kästner, professor at Göttingen, recommended Niebuhr as a member of it. A year and a half of preparation were allowed him, and, in 1760, he received the place of lieutement of engineers in the Danish service. Niebuhr was geographer to the expedition, which sailed in March, 1761, and, after touching at Constantinople, proceeded to Egypt. Here they remained a year, and reached Yemen, their point of destination, in 1762. Both in Egypt and on the journey, Niebuhr made many important ast ronomical, geographical and geodesical observations. Within a year, all his compinions died (Von Ha-

gen and Forskäl in Arabia, Bauernfeind on the passage to India, and Cramer in Bombay), and Niebdhr himself was saved only by his extreme abstemiousness. The whole object of the expedition would have been frustrated, had not Niebuhr, with extraordinary firmness, continued his journey, and taken upon a himself the whole duty of the company. In September, 1763, he sailed for Bombay, where he spent fourteen months in arranging his journal, and, in December, 1764, set out on his return over land, through Persia and Turkey. He arrived in Copenhagen in November, 1767, and laid the fruits of his researches before the world in his Description of Arabia (Copenhagen, 1772), and his Travels in Ara-bia (2 vols., 1774—1778), both of which were published in Danish, and have been translated into English and other lan-He also edited, from Forskál's guages. papers, the Descriptiones Animalium, &c. (1775), and the Flora Egyptiaco-Arabica Great accuracy of observation, and strict veracity, give to his accounts a high value, and render them the most trust-worthy source of information concerning the countries visited by him. In 1768, he was made captain of engineers; in 1778, secretary of the district of South Ditmarsh, and, in 1809, knight of the order of the Danebrog. In 1802, he was chosen foreign member of the French national institute. He died in 1815 .-Nichuhr was remarkably frugal; his moral character was spotless; his manners pure and severe; and he ever appeared disinterested and modest. Nobility, which was offered him, he declined. His celebrated son wrote his life, the substance of which forms the forty-eighth number of the Library of Useful Knowledge.

NIEBUIR, Berthold George, the celebrated historian of Rome, was the son of the preceding. He was born in Copen-hagen, Aug. 27, 1776; but, before he had reached his second year, his father (a German) received an appointment in Germany, in South Ditmarsh, whither he took his son. An account of his early education is given in his biography of his father. Intercourse with several distingnished scholars, particularly J. H. Voss, the celebrated translator of Homer, early inspired him with a peculiar love for the classics. His father was intimately acquainted with the famous Busch, which was the cause of Niebuhr's residence for some time in Hamburg, where he acquainted himself with commercial affairs. Here, also, he was in constant intercourse with Klopstock, who had a great friendship for the youth. From 1793 to 1794, he studied law in the university of Kiel; but his inclination for the classics continued. When nineteen years old, he went to the university of Edinburgh, in order to study the natural sciences under the professors of that institution, then so famous. He remained one year and a half in Edinburgh, and then travelled over England for six months, and obtained an extensive knowledge of the institutions of that country, assisted as he was by a memory of whose power the writer of this article, in a long residence with Mr. Niebuhr, has seen most surprising, proofs. When he returned from England, he was appointed private secretary to the Danish minister of finance, in which situation he had an opportunity to examine closely the administration of count A. P. Bernstorff (q. v.), which, as he himself says, in the biography of his father above-mentioned, affected essentially the direction of his whole life. After a certain time, he was appointed a director of the bank. In 1801, he witnessed the bombardment of Copenhagen. The invasion of Germany (which he always loved as his true country) by the French affected him much; and his translation of the first Philippic of Demosthenes, dedicated to the emperor Alexander, with a remarkable call upon him, prove his sentiments. In 1806, he was taken into the Prussian service; but, soon after his arrival in Berlin, the battle of Jena changed the whole condition of the kingdom. In Königsberg, whither he had followed the court, he was appointed one of the counsellors who directed public affairs, under Hardenberg, until the peace of Tilsit. He then took an active part in the organization of the Prussian states under the minister Stein. (q. v.) In 1808, he was sent to Holland on a special mission, where he remained fourteen months, during which he always contrived to save some time from his public occupations On his return to Berlin, for study. he was made privy-counsellor of state, and a temporary officer in the department of finances. In 1810, when the university of Berlin was established, his friends persuaded him to deliver his first lec-/ tures on Roman history; which were received with such interest by the hearers, and so much commended by men like. . Buttmann, Heindorf, Spalding and Savigny, that he published, in 1811 and 1812, the two volumes of his Roman history. When the Prussians rose against the French, he established a journal at Berlin,

under the title of the Prussian Correspondent, and, in 1814, was sent again to Holland, to negotiate a loan with England. On his return, in the same year, to Berlin. he lost his wife, and, soon after, his father; and, to divert his mind under his losses, he planned the biography of his father. and edited, together with Buttmann and Heindorf, the fragments of Fronto, found in Verona by Angelo Maio. (q. v.) In 1816, he married a second time, and was appointed Prussian minister at the papal see; and, on his passage through Verona to Rome, he discovered, in the cathedral library of the former city, the Institutions of Gaius. (See Capus.) The chief object of his mission was to arrange with the pope the reorganization of the Catholie church in the Prussian dominions, which was finally settled by the Prussian concordate, when prince Hardenberg (q. v.) went to Rome in 1822. The result is the bull De Salute Inimarum. Pius VII, himself a lover of science, had a great regard for Niebuhr. Even before he went to Italy, his attention had been directed to the importance of the Codices rescripti (see Codex), and the discovery of Gains added to his interest in the subject, so that he spent much time in Rome, in an accurate examination of the manuscripts of the Vatican library; but, when : Angelo Maio was appointed keeper of the library, a very ill-placed jealousy on his part towards Niebular prevented the latter from continuing freely his learned labors, the result of which he made known to the world in his collection of uncdited fragments of Cicero and Livy (Rome, 1820); and, at a later period, when a good understanding existed again between Majo and Niebohr, produced by the disinterested frankness of the latter, he took an active part in Maio's edition of the precious fragments of Cicero's De Pepublica. His residence in Rome gave him an intimate knowledge of the localities of the city, and a clearer conception of its ancient character and history. The writer considers him more intimately acquainted than any entiquarian of the place, with the relies of the ancient city; and to walk with him over the ancient forum was like passing along with a guide from classic times, so clear was the whole scene before his eye. His knowledge in this branch appears in his essay On the Increase and Decline of Ancient, and the Restoration of Modern, Rome, which is printed in the first volume of the Description of Rome, by Bunsen and Plattner. It is also published in his "Minor Works. More of the same kind

from his pen will appear in the succeeding volumes of the interesting work just mentioned. In this period, he also wrote some Latin treatises in the Atti dell' Accademia di Archeologia, on the Greek inscriptions brought by Gau (q. v.) from Nubia, and a German treatise on the age of Curtius and Petronius, in the Transactions of the Academy of Berlin. In 1823, he left Rome, and, before his return to Germany, went to Naples, where he devoted some hours every day to the collation of the best manuscript of the grammarian Cha-, risius in the library of that city. In Switzerland, he remained six weeks in St. Gall, examining laboriously the manuscripts of the library; and, if he expected more than he actually found, he at least discovered some remains of the latest Roman poetry, that is, poems of Merobaudes. He settled in Bonn, where the Prussian government had established a university. He wrote here, in the winter of 1833—1894, that portion which is finished of the third volume of his history of Rome. He was appointed a member of the council of state, whose sessions he attended at Berlin. The writer entertains a grateful remembrance of a visit which Mr. Niebuhr paid him at this time, when imprisoned in consequence of a political prosecution, and of his release from confinement, obtained through Mr. Niebuhr's intercession. The kindness was greater, as Mr. Niebuhr's own political principles were looked on with some suspicion by the men in power. After his return to Bonn, he determined to remodel the two first volunies of " his Roman history before publishing the third, as further regardles had changed his views in many respects. He now also began to lecture again, and the fees paid a for attendance he devoted to prizes for scientific questions, or to the support of poor students. Volume i (2d ed.) appeared in 1c27, and was so well received that the third edition appeared in 1828. The second volume was, in its new state, finished only a few months before his death; and, in the preface, he says that the melancholy influence of recent political events upon his mind appears in the mode of the execution of the concluding part of the work. That part of the third volume which he had finished, and which carries the history of Rome from the Licinian law to the last quarter of the fifth century, will probably soon appear. Niebuhr's activity was great. Every scholar will easily perceive in his history the extensive and unremitted labor which it req ared; and, towards the close of his life,;

he added to his other occupations the task of preparing a new edition of the Byzantine Historians. He himself made the beginning with a critical edition of Agathias. and obtained active collaborators, while he superintended the execution of his plan. At the same time, he made a collection of his treatises in the Transactions of the Academy of Berlin, and in the Rhenish Museum, which he had edited, together with professor Brandes, since 1827. His reputation is spread over Europe, and in America he is equally honored. He died Jan. 2, 1831, at a period of his life which afforded reason for expecting much from him. His wife died on the Ilth of the same month. The task of contining articles within the limits required by a work like the present, often difficult, is, on the present occasion, painful, from the necessity of repressing the utterance of gratitude for numerous benefits, and of admiration for a man whose integrity, benevolence, and frankness of spirit, are deeply impressed on the mind of the writer, from a long residence under his roof.

NIEDER (German for lower) forms part

of many geographical names.

Niederrhein. (See Rhine, Lower.) NIELLO (Halian); a species of work used among the Romans and modern Italians, somewhat resembling Damascus work, and performed by enchasing a mixture of silver and lead into cavities and holes cut in all sorts of hard wood and This art was denominated by the mutals. ancients nigellum, and was used by them to decorate a great variety of things, and more especially candelabra. It was practised by the jewellers and goldsmiths, and flourish A chiefly in the fifteenth century. -See Duchène's Essai sur les Nulles (Paris, 1826, with plates).

NIEMCEWICZ, Julius Ursinus; one of the most distinguished living Polish literati, whose works have been admitted into the collection of Polish classics published by count Mostowski, and who has also attained celebrity by the active part he has taken in the affairs of Poland. As nuncio of Lithuania, he distinguished himself in the diets of 1788-1792. (See Poland.) In 1794, he was one of Kosciusko's (q. v.) aids, was made prisoner with him, and carried to St. Petersburg, where he remained until the accession of Paul, who set him and his companion at liberty. He then accompanied Kosciusko to the U. States, where they both remained during some years. Neither of them would consent to take part in the affairs of Poland vhile under Napoleon; but, after the

union of Poland, as a kingdom, with Russia, he was actively engaged in the civil service of his country. He was president of the constituent committee, and had great influence in the drawing up of the constitution. On Kosciusko's death, he pronounced his enlogy, which is considered a masterpiece, Among his principal works are Historical National Songs, with Music and Plates (Warsaw, 1816; since which there have been 4 editions); History of the Reign of Sigismund III, King of the Poles (Warsaw, 1819, 3 vols.); Casimir the Great (a drama in three acts, Warsaw, 1792); Fables and Tales (Warsaw, 1820, 2 vols.); and the Collection of Memoirs illustrative of early Polish History (Warsaw, 1822; 3 vols.). In his letters of Polish Jews—Levi and Sarah, a Sketch of Manners (translated into English)-Niemcewicz describes with truth and spirit the low state of the moral and spiritual character of that part of the Polish population. His romance John of Tenezyn (Warsaw, 1825, 3 vols.) carries the reader into one of the most brilliant epochs of Polish history, in the time of king Sigismund Augustus, in the middle of the sixteenth century. After the late revolution had broken out at Warsaw, Nov. 29, 1830, the old administrative conneil, feeling that they were not popular enough to inspire confidence, added to their number six Poles most distinguished for rank or talent, of whom Niemcewicz was one.

Niewey (in German, Memel); a large river of Lithuania, which rises in the Russian province of Grodno, near Slonim, and divides, eight miles below Tilsit, into two branches, called the Russ and the New Gilge, which form the Tasit plain, celebrated for its fertility, and empty into the Curische-Haff. The Tilsit plain suffered severely from an inundation in 1829, by which the river dikes were much injured. The Niemen is navigable in summer, and facilitates the commerce of Memel and Königsberg. The meeting of Napoleon with the emperor Alexander, and Frederic William, king of Prussia, which took place on a raft in this river, in 1807, gives it a historical celebrity.

NIEMELER, Augustus Hermann, a German theologian, and miscellaneous writer, was born Sept. 1, 1754, at Halle, where he studied theology. In 1780, he was appointed professor extraordinarius of theology in the university of his native city; in 1784, professor ordinarius, and inspector of the royal pedagogium. He received a number of appointments, which gradually enlarged the sphere of his activity; and, in

1808, he was made member of the estates of the kingdom of Westphalia, chancellor, , and rector perpetuus of the university. In . 1813, the university was abolished by Napoleon; but, when the Prussian government restored it he was reappointed. He soon laid down this office, but occupied several other places connected with education. Besides a number of sermons, treatises and translations, he has published the following works, all in German: Characteristics of the Bible; Philotas, or Consolations for the Suffering and the Friends of the Suffering: Timotheus, for the Awakening and Promotion of Piety in thinking Christians; Popular and Practical Theology; Letters to Christian Teachers of Religion; Teacher's Manual (Halle, 1802); Views of German School Instruction, and its History in the eighteenth Century (Halle, 1801); Principles of Education and Instruction for Parents, Tutors and Teachers (7th ed., 1819, 3 vols.); Original Passages of Greek and Roman Classics on the Theory of Education (Halle and Berlin, 1813); the Book of Religion, and Hymns for higher Schools; Leisure Hours during the War; Religious Poems (Halle and Berlin, 1811). In 1820, he made a journey to England, which he has described in his Observations in Travelling (1822, 2 vols.). The third and fourth volumes describe a former journey to Holland and France. April 18, 1827 the university of Halle celebrated the fiftieth anniversary of his reception of the degree of master of arts; and the king, on that day, presented the university with 40,000 Prussian dollars for the erection of a building, for which Niemeyer had peutioned. He died at Halle in 1828.

Nierenstriner, or Niersteinel; a Rhenish wine, which grows near Nierenstein, a village on the left bank of the Rhine, in the grand-duchy of Darmstadt, three leagues S. S. E. of Mayence. It has 2080 inhabitants. (See Rhenish Wines.)

NIEVBR. (See Department.)

(See Northern Mythology.) NIPLHEIM. NIGER; a large river of the central part of Africa, which has been rendered celebrated on account of our ignorance of its course and termination, and the various theories which have been formed relative to them. Notwithstanding the opinion of some writers, that the Niger of the moderns was known to Ptolemy, and even to Herodotus, it appears evident that nothing is navigable for steam-boats, through a was known, by the ancients, of the cen-rich and populous country, the inhabtral region of Africa, and that the streams referred to by those authors were in the progress in civilization. The river, in the

Mungo Park (q. v.) reached the banks of the Niger, at Sego, in the kingdom of Bambarra (July 22, 1796), and determined the direction of its course to be eastward, and not to the west, as had been commonly supposed. He traced its course. upward to Bammakoo, and downward to Silla. On his second expedition (1805), he. embarked at Sansanding, with the intention of descending the river to its mouth; but, on reaching Boussa, was attacked by the natives, and killed. It was thus useertained that the Niger rises in the western. part of Africa (100-120 N. lat.), near the sources of the Senegal, and, after an eastcrly course of several hundred miles, runs in a southerly direction. Different opinions were entertained in regard to its termination. Some supposed it to flow into the Nile; others, into a great central lake: some maintained that it was lost in the sands; and others, that it emptied into the gulf of Guinea, or that the Congo, farther to the south, was its mouth. Numerous attempts were made, by the British government, to resolve the question, but with little success, until the expedition of 1821, under Denham and Clapperton. (q. v.) They discovered lake Tehad (lon. 15° E.), and, on visiting Soccatoo (6° 10' E.), found that the Niger there flowed to the south, under the name of the Quorra. Its termination, however, was yet undetermined. In 1825, Clapperton again set out on a tour of discovery, and crossed the Niger at Boussa. On this expedition, he was accompanied by his servant, Richard Lander (q. v.), who, after the death of his master, attempted to descend the Niger from Fundali, but was prevented by the jealousy of the government. In 1830, Richard Lander set out from Badagry, with his brother John, for the purpose of following down the course of the river to its mouth. They reached the river at Boussa, from thence ascended to Youri -and the Cubbie, which comes from Soc-They then descended the river, which flows nearly south from Boussa, and which, after receiving the Shary, expands into a large lake, and thence empties, by several arms, into the Bight of Benin. The mouth by which they reached the sea, is laid down on the maps as the river Nun. Thus from Park's first. point, in 1805, its course is traced for 2000 miles, a considerable part of which itunts of which have made considerable more northern pers of that continent upper part of its course, is known to the

natives as the Joliba; in the lower, as the highest interest .- In mythology, Night Quorra: the name Niger was erroncously applied to it by the Europeans, on the supposition that it was the river spoken of by Ptolemy. The Journal of the Landers is announced (in 3 vols.), but has not yet, appeared.

(For the division of the 24 NIGHT. hours into day and night, see Day.) a telluric phenomenou, night is of the greatest interest. The sleep which it brings to most organic creatures; the life to which others awake with it; the increase of feverish symptoms on its arrival; and many other* phenomena, are of the

* One of the most interesting of these is the greater clearness with which distant sounds are heard during night. This fact, which had been neart during uight. Into fact, which had been observed by the ancients, and in large cities, or their vicinity, was commonly ascribed to the repose of miniated beings. When Humboldt first heard the noise of the great cataracts of the Orinoco, in the plain which surrounds the Mission of the Apures, his attention was particularly directed to this curious fact, and he was of opinion that the noise was three times louder at night than during the day. As the humming of insects was much greater at night than during the day, and as the breeze which might have agitated the leaves of the trees never rose till after sunset, this eminent traveller was compelled to seek for another cause of the phenomenou. In a hot day, when warm currents of air ascend from the heated ground, and mix with the cold air above, of a different density, the transparency of the air is so much affected, that every object seen through it appears to be in motion, just as when we look at any object over a fire or the flame of a candle. The air is, therefore, during the day, a mixed medium, in which the sounds are reflected and scattered in passing through streams of air of different densities, as in the experiment of mixing atmospheric air and bydrogen. At midnight, on the contrary, when the be seen by the brilliancy and number of the stars, the slightest sound reaches the car without inter-ruption. M. Chladni has illustrated the effect of mixed medium by an elegant experiment of easy repetition. If we pour sparkling Champague into a tall glass till it is half full, the glass cannot be made to ring by a stroke upon its edge, but admits a dull, disagreeable and puffy sound. This effect a dull, disagreeable and puffy sound. This effect continues as long as the effervescence lasts, and while the wine is fill d with air-bubbles. the effervescence ibsides, the sound becomes clearer and clearer till, at last, the glass rings as usual, when the /x-bubbles have disappeared. By reproducing v e effervescence, the sound is deadened as before. The same experiment may be made with effervescing malt liquors, and with still more effect by putting a piece of sponge, or a little wool or tow, into a tumbler of water. The cause of the result obtained by M. Chladui is, that the glass and the contained liquid, in order to give a musical tone, must vibrate regularly in unison as a system; and if any considerable part of a system is unsusceptible of regular vibration, the whole must be so. Baron Humboldt has employed this interesting experiment to illustrate and explain the phenomenon of distant sounds being more distinctly heard during the night. . vol. ix. 25

(Latin, nox; Greek, 16) is daughter of Chaos, and sister to Erebus, by whom she became the mother of Day and Ether. Every thing unknown, dark, horrid and awful, belongs to her progeny,—Death, Sleep, Dreams, Siekness and Plague, Discord, War, Murder, Deceit, &c.. The Hesperides, also, were called her daugh-According to the Orphic poems, she was also the goddess of love. Modern mythology represents her as mounted ? on a chariot, and covered with a veil bespangled with stars. Occasionally two children are depicted as held under her arms; the one black, representing the principle of death; the other white, to indicate the innocence and refreshing nature of sleep. Some of the modern artists have depicted her as a woman veiled in mourning habiliments, crowned with poppies, and borne on a chariot drawn by bats and owls. One of the finest representations of Night is a bass-relief of Thorwaldsen: a corresponding piece represents Day. It is one of the loveliest and happicst productions of that great artist.

NIGHT-BLINDNESS; a disease in which the eyes require the full light of day to Persons atllicted with this disease cannot see at all, or see very imperfectly, by candle-light, or moon-light. The needical name of this disease is hemeralopia. (from ημερα, day, and δπτομαι, to see.) Heber says it is very common in India.— Nyctolopia (from 105, night, and onropae, to see), a disease in which the patient sees little or nothing by day-light, but sees better than others in the dark, is sometimes improperly called night-blindness.

NIGHT-BLOOMING CEREUS. (See Cac-

tus.)

47.

NIGHT-HAWK (caprintulgus Americanus). The night-hawk, which is also called a bat in some of the Southern States, is universally known in the U. States. It commonly appears in Pennsylvania about the latter end of April, and is to be seen towards evening, in pursuit of its prey, which consists of beetles and other large insects. The female begins to lay about the middle of May. She makes no nest, depositing her eggs on the bare ground, though always in a dry situation. The eggs are usually two in number, rather oblong, equally thick at both ends, of a dirty bluish-white, marked with numerous blotches of dark olive-brown. Like the goat-sucker of Europe, the night-hawk always sits lengthwise on the branch on which it roosts, and not across it, like other birds. When incubation com-March March

. ed, they are covered with a down of a pule-brownish color. The night-hawk is a bird of strong and vigorous flight, and great expanse of wing. It often visits our cities, darting and uttering its peculiar squeak over the streets at a great height, diving down perpendicularly, and producing a hollow sound, which has been uptly compared to blowing strongly into the bung-hole of an empty hogshead. When the weather is wet and gloomy, these birds are to be seen abroad at all times of the day, though their usual time of appearance is from two hours before sunset When wounded, they attempt to intimidate by opening their mouth to its utmost stretch, throwing the head forwards, uttering a kind of guttural, whizzing noise, and striking violently with their wings. They begin to go south about the middle of August, and, by the middle of September, few are to be seen in Pennsylvania. The night-hawk is 94 inches in length, and 23 in extent; the upper parts are of a very deep blackishbrown, thickly sprinkled with minute spots, and streaks of a pale cream color, on the back and head. The tail is somewhat shorter than the wings when shut, and is forked; the mouth is large, and has The night-hawk no bristles about it. bears some resemblance to the two other species of caprimulgus which are found in the U. States—the chuck-wills-widow and whip-poor-will. (q. v.) (See Wilson, Ornithol., v, p. 65.)

NIGHTINGALE (motacilla luscinia). small bird, which is so celebrated for its yocal powers, has but little to recommend it in the beauty of its plumage. The upper part of its body is of a rusty brown, tinged with olive; the under parts are of a pale ash color, almost white at the throat and belly. It is about six inches in The nightingale is a bird of paslength. sage, appearing in Europe about the beginning of April, and leaving it early in the autumn. It is solitary in its habits, never associating in flocks, like most of the smaller birds. The female builds in low bushes or hedges, near water, and lays from four to live olive-green eggs. This bird perhaps owes some of its fame to the circumstance of its singing during the evening and night, when every sound is heard to advantage, and has a powerful effect on the imagination. But it is not to its power of song alone that this bird is indebted for its celebrity; wonderful stories are told of its oratorical talents. Ges-

mences, the male keeps a vigilant watch around. When the young are first hatched, they are covered with a down of a pide-brownish color. The night-hawk is a bird of strong and vigorous flight, and great expanse of wing. It often visits our cities, durting and uttering its peculiar squeak over the streets at a great height, diving down perpendicularly, and producing a hollow sound, which has been apty compared to blowing strongly into the bung-hole of an empty hogshead. When

NIGHTMARE. (See Incubus.)

NIGHTSHADE (solumum nigrum); a common weed in waste places, both throughout Europe and the U. States. The stem is eight or ten inches high, and is furnished with oval and more or less angular leaves. The flowers are small, white, scattered here and there upon the branches, in bunches of five or six, and are succeeded by small black berries. It possesses narcotic properties, though not so dangerous as was once supposed, and was formerly much employed in medicine, but at present is only used for external applications. The bitter-sweet (S. dulcamara) is also sometimes called nightshade. This is a European plant, and is also common in the Northern and Middle States, even at a distance from habitations. ,The stem is woody, and divides at base into several long, flexuous branches, which twine round and support themselves upon the surrounding plants. The leaves are, some of them, oval-lanceolate and entire, and others with two lateral lobes at the base. The flowers are larger than those of the preceding, of a fine violet color, and are disposed in corymbs along the branches. The fruit consists of evoid, bright red berries, which, for a long time, were supposed poisonous: lately, however, they have been administered to various animals, in large quantities, without producing any deleterious effects. The deadlynightshade (atropa belladonna) is, on the other hand, a dangerous plant, and frequently produces fatal effects in the Eastern continent, where it grows abundantly in waste places. Fortunately, it has not hitherto been naturalized in the U. States. The stem is about three feet high, a little hairy, herbaceous and branching. leaves are large, oval, acute, and softly The flowers are solitary, bell-of a dull purple color. They pubescent. shaped, and of a dull purple color. are succeeded by black berries, which are so much the more dangerous, as their taste is sweetish and rather agreeable. The extract, dissolved in water and applied to the eye, possesses the remarkable property of dilating the pupil, and is, in consequence, employed in surgical operations for that purpose, The plant belongs to the solanacea, the same natural family with the preceding.

Nigrine. (See Titanium.) Nigritia, Soudan, or Takrour; a general name for the interior parts of Africa, some portions of which are yet unknown, and some have been only recently explored by Clapperton, Caille, Lander, &c. It contains a great number of kingdoms, or countries, among which are Bambarra, Timbuctoo and Kong on the west; Houssa, Borgou, Yarriba, Nyffe, Funda, Bournou, Mandara, Begharmi and Kanem in the centre; Bergoo, Darfur, Kordofan, Donga, and the country of the Shillooks to the east. It lies between 6° and 176 N. lat., and 8° W. and 325 E. lon. It is bounded on the north by Sahara, on the east by Nubia, on the south by the Mountains of the Moon and Lower Guinea, and on the west by Senegambia. As thus described, it is about 2500 miles from west to cast, 500 from north to south, with a superficial area of 1,250,000. It contains some lofty mountains; some of the summits of the Mountains of the Moon being covered with perpetual snow; the Kong range is in the south-western part of the country. In the centre is lake Tchad, into which the Yeou and the Shary, two large rivers from the south-west, empty themselves; the north-eastern borders of the lake have not been examined. The Niger (q. v.) rises in the western part of Nigritia, and, after an easterly course, flows south into the gulf of Guinea. During eight or nine months, the heat is v ry great. In the rainy season (from June to September), the country is covered with a most luxuriant vegetation. The soil, in general, is fertile, producing maize, rice, millet, cotton, hemp, melons, indigo, dates, the gooroo, or Soudan nut, &c. The gigantic baobab, the butter-tree, various resinous trees, &c., are found in the forests. Camels, dromedaries, asses, horses, sheep, goats and horned cattle are numerous. Lions, leopards, hyanns, wolves, jackals, rhinoceroses, elephants, girafies, monkeys, crocodiles, &c., are found in the woods or rivers. A great portion of the country being populous, we may suppose it to contain about 20,000,000 inhabitants. They are more advanced in civilization than the negroes of the coast, to whom our knowledge has, till lately, been principally confined. They exercise some of the mechanical arts with skill, and an important commerce is carried on

with the Barbary states, Egypt, and Nubia, by Moorish merchants, in caravans. Slaves, ivory, gum, estrich feathers, &c., are the most considerable articles of export. The discovery of a great navigable river, running through the heart of the country, and accessible to Europeans from the sea, must have a most important influence on the condition of this country. Park, Clapperton and Caillé have furnished us with nearly all the information which we possess concerning these regions, which were but indistinctly known to the ancients under the general name of Ethiopia: The Journal of the Landers (now in press) will give some further materials relating to the south-western part.

NIBIL ALBUM; a name formerly given

to the white oxide of zinc.

NILE; a large river of Africa, which flows through Nubia and Egypt. Below Cairo, where it is 1000 yards wide, it divides into two main branches, which again separate into several arms, the extreme eastern and western of which give to the lower part of Egypt the form of a delta. (q. v.) There were anciently reckoned seven principal mouths by which its waters were poured into the Mediterranean; only those of Damietta and Rosetta are at present navigable; the others have been choked up. The sources of the Nile have never been accurately determined. Among the Greeks and Romans, this river excited the greatest interest; from its being the largest known to them, from its immdation, of which they had no other examples, and were ignorant of the cause, and from its unknown origin. The name Nile, according to Spineto (Lectures on Hieroglyphics), is Greek; the Egyptians calling it merely laro, which means river. The true Nile is formed by the confluence of the Bahr-el-Abiad (white river) and the Bahr-el-Azrek (blue river), in The former, rising in lat. 15° 40′ N. Abyssinia, to the south-west of lake Dembea, comes from the south-east, and was considered by Bruce as the Nile. The latter, however, which comes from the south-west, and is supposed to rise in the Mountains of the Moon, brings down the greatest mass of water, and is considered by Cailliand as the true Nile. (See Meroc.) This is a mere dispute about words. In lat. 17° 40', it receives the Tacazze from the cdst, enters Egypt in 24°, following nearly a northern course, and below Cairo (30° 15/ N.) divides into the two main arms above-mentioned, the Damietta, or the eastern, and the Rosetta, or western branch. The distance from the

confinence of its two head branches to long, 90 feet proad and 18 deep, is a magthe sea is about 1500 miles; from its highest sources, probably not far from 2500 miles. (See Rivers.) The cataracts so much celebrated by the ancients, modorn discoveries have shown to be insignificant; they appear to be hardly any thing more than what we call, in this country, rapids. In Upper Egypt, it is confined between two ranges of mountains, which leave only a narrow strip each side of the river. Near Cairo, the river valley widens, and the level nature of the country below allows it to spread itself over a wide plain. The seven mouths were called, by the ancients, the Canopic, the most western (probably to lake Edko or Marcotis), the Bulbitic (the Rosetta branch), the Schemitic (probably . terminating in lake Bourles), the Phatnitic or Bucolic (now the Damietta branch), the Tanitic, the Mendesian, and the Pelusiac (the most easterly), which entered the sea at different points of what is now lake Mewzalch. In Upper and Middle Egypt, there are great numbers of canals on the left bank of the river, which serve to irrigate the country: the principal, called the canal of Joseph, communicates with lake Maris. (q. v.) The inundawith lake Meeris. (q. v.) tions of the Nile are owing to periodical rains, which fall to the south of the 17th degree. They begin in March, but have no effect upon the river until three months later. Towards the end of June, it begins to rise, and continues rising at the rate of about four inches a day, until the end of September, when it falls for about the same period of time. Herodotus informs us that, in his time, a rise of 16 culits was sufficient to water the country: at present, 22 cubits are considered a good rise. A rise of 26 cubits, in 1829, destroyed a great many villages, with their inhabitants. The lower part of Egypt has, therefore, been very much raised since the time of Herodotus, by the accumulated deposits of rich slime brought down by the river. (See Egypt.) This mud, which is composed principally of argillacoors earth and carbonate of lime, serves to fertilize the overflowed lands, and is. used for manure for such places as are not sufficiently saturated by the river: it is also formed into bricks, and various vessels for domestic use, &c. The present pacha (see Mohammed Mi) has opened many of the old canals, which had been closed for centuries, and dug new . ones: among the latter, the canal of Mahmood, connecting the harbor of Alexandria with the Nile, near Fouah, 48 miles

nificent work. Among the animals with which the Nile abounds, the most remarkable are the crocodile and the hippopotamus. In the ancient Egyptian mythology, the Nile was revered as the tutelary deity of the country. The Greeks make him the son of Pontus and Thalassa, or of Oceanus and Tethys. Memphis is said to have been his daughter. the waters began to rise, the inhabitants celebrated the festivals called Niloa, sacrificed a black bull to him, strewed lotus flowers on the water, &c. In the city of Nilopolis, a temple was erected to him. His attributes are the crocodile, the sphinx, the hippopotamus and the dolphin. The Nile has been personified in several statues, particularly in a very noble one of black marble, now in the Vatican. He is distinguished by his large cornucopia, by the sphinx couched under him, and by the sixteen little children playing around him. By the sixteen children are understood the several risings of the river every year, as far as to sixteen cubits. The black marble is said to be in allusion to the Nile's coming from Ethiopia. The water flows down from under his robe, which conceals his urn, to denote that the head of this river was impenetrable. In some modern statues; the head of the tigure is quite hidden under his robe for the same reason. An instrument, called a nilometer, was constructed by the ancient Egyptians, consisting of a rod or pillar, marked with the necessary divisions, for the purpose of ascertaining the proportionate increases of the flood of the Nile. It is said by several Arabian writers to have been first set up by Joseph during his regency in Ugypt. The measure of it was sixteen cubits.

Niloueter. (Sec .Vile.)

NIMBUS, or GLORY; the halo, or collection of rays surrounding, in ancient times, the heads of certain deities, kings and emperors, and, since the establishment of Christianity, the heads of Christ and the saints. Some have attributed the origin of the custom to the practice, in the Roman triumphs, of placing a common round shield over the head of the triumphant leader, and have supposed that the coverings which protected the heads of the statues of the gods from filth and dust, were called by the same name, and that these rays were at first added for ornament, whence sprung afterwards the real halo, or glory. But it is probable, from the numerous legends in which holy children are described with glories, that

they owe their origin to an ancient Oriental symbol.—Numbus is the Latin for cloud.

(See Clouds.)

NIMEGUEN (anciently Noviomagus); a strong city in the Dutch province of Guelderland, delightfully situated on a steep hill, reaching down to the Waal: lat. 51° 51' N.; lon. 32° 46. E.; population, 13,325. Most of the streets are narrow and dark. The principal of the nine churches is a handsome building. On a height near the river are seen the ruins of an old tower, said to have been built The town-house conby Charlemagne. tains a rich collection of Roman antiqui-The Belvedere, a high tower, from which there is a most extensive yiew, is near the beautiful public walk, the Kalverbosch. The pale beer (Moll) of Nimeguen Nimeguen is celebrated for is famous. two treaties of peace, concluded in 1678, between Spain, France and Holland, and, in 1679, between Germany and Sweden.

NIMES, or NIMES (Nemausus); a city of France, capital of the department of the Gard; lat. 43° 50′ N.; lon. 4° 21′ E.; 350 miles south-east of Paris; episcopal see, and the seat of several departmental authorities. It is situated in a delightful plain, and is surrounded with boulevards, which occupy the place of the former for-It contains some handsome tifications. public buildings, among which are the palais-de-justice, an hospital, and cathedral. The public walks are magnificent. The population is 39,068, of which a great number are Calvinists. The inhabitants are principally employed in manufactures, chiefly of silk and cotton. It has considerable commerce in wine, oil, essences, drugs, dye-stuffs, &c. Nimes, next to Rome, contains the greatest number of monuments of Roman grandeur: among them are the square house (maison carrie), an ancient temple, built by Adrian, 76 feet long, 38 broad, and 42 high, with 30 beautiful Corinthian columns (it was repaired by Louis XIV, and again in 1820); the amphitheatre, a noble circus of the Doric order, the walls of which, composed of enormous masses of stone, united with admirable skill, and about 1200 feet in circumference, are in good preservation; the beautiful fountain of Diana, with its baths and trees; the temple of Biana, in ruins: and the ancient tower Magne, on a hill outside of the city, the original destination of which is unknown. Very fine mosaics have been found here, and numerous fragments of ancient buildings, with Greek and Latin inscriptions. Nimes is supposed to have been built by a Greek

colony, and was afterwards, for about 500 years, in the possession of the Romans. In the sixteenth century, it became a strong hold of Calvinism (see Huguenots), and suffered much during the civil wars. In 1815 (see France), it was the scene of religious violence in consequence of the reaction of that period. See Millin's Voyage dans les Départements du Midi; Menard's Histoire des Antiquités de Nimes (1822).

Nimeon; a valiant warrior, who, according to the Mosaic account, lived before 2000 B. C., and is generally supposed to have been the first conqueror who substituted the monarchical yoke for the patriarchal independency of the normalic tribes. Babylon and the monarchy of Nunrod were founded by him, and cularged by the conquest of the towns (fortified tribes) of Erech (afterwards Edessa), Accad (afterwards Nisibis), and Calneh (afterwards Ctesiphon, in Mesopotamia). Herder calls him the builder of the tower of Babel, and considers the representation of him, as a powerful hunter, merely a figurative designation of the tyranny and artifice by which he subjected and united the wild nomadic tribes .- Nimrod, in Chaldaic and Arabic, signifies a rebel.

NINE; used by the English poets for the Muses (q. v.), on account of their

number.

NINEVER. (See Ninus.)

NINON DE L'ENCLOS. (See L'Enclos.)
NINTH, in music; an interval containing an octave and a tone; also a name given to the chord, consisting of a common chord, with the eighth advanced one note.

Nixes was, according to an uncertain tradition, an Assyrian king, the successor of Belus, and one of the greatest conquerors in Asia. He extended the Assyrian kingdom to the borders of India, to the Nile and the Tanais, married Semiramis, the wite of Medon, one of his generals, who had assisted him, by stratagem, in the conquest of Baetra, the capital city of the Baetrians, and built Nineveh, the capital of his own kingdom, which, according to Niebubr, is situated on the east side of the Tigris, opposite Mosul. His son was Ninyas. His kingdom is considered as having been founded between 2000 and 2100 years B. C.

Niose, daughter of Tantalus (king of Lydia) and of Dione, or Euryanassa, was the wife of Amphion, who, in common with Zethus, governed Thebes, which they had built. According to the common accounts, she had seven sons and

seven daughters, and, proud of her blooming offspring, she so far forgot herself as to exalt herself above Latona, the mother of only two children-Apollo and Diana; and, in punishment of her presumption. she had to witness the destruction of her children by the arrows of the twin dei-Anguish and despair transformed the wretched mother, after long wanderings, into a stone, which was shown on mount Sipylus, in the kingdom of her father. Amphion and Zethus also fell, pierced by the arrows of Apollo, when, full of wrath, they penetrated into the sanctuary of the god. This is the most common account of the fate of Niobe, in the circumstances of which poets frequently differ, who have taken this story for a subject as often as artists. The origin of the fable seems to lie in the ancient figure of speech, by which it was said of young people who died suddenly, that they had been struck with the arrows of Apollo or Diana; and, in almost all languages, petrifaction is the natural image of the highest degree of torpid despair. One of the most beautiful exhibitions of ancient art is contained in the group of Niobe. The statues forming this group were dug up in 1583, near the Porta Lateraneusis, in Rome, were purchosed by the cardinal Ferdinaud de' Medici, who caused them to be placed in the vilta Medici, and, in 1772, were conveyed to Florence by the grand-duke Leopold, where, in 1777, they were placed in the Roundala Tribuna, after their restoration by Vincenzo Spinazzi. The group consists of fourteen statues, and is considered to be the one described by Pliny Respecting its author nothing certain was, even in his time, known; some, with Pliny, attributed it to Scopas; others, to Praxiteles: Winkelmann declared himself for Scopas. Equally ignorant are we respecting the original combination of the single figures. It has hitherto been the more difficult to form an opinion, inasmuch as several of them, the "two wrestlers," as they are termed, the pedagogue (whom Fabron takes for king Amphion), and one of the daughters (whom Gothe thinks an Erato), have been pronounced by the best connoisseurs not to belong to this group, although they were all found in one place and at the same time. The English architect Cockerell, in an essay, in 1816, proposed the conjecture that these celebrated statues were arranged on a line pyramidally, and constituted the ornaments of the front of some ancient temple; and it is well known that the Grick

architects were fond of decorating the fronts of their temples in such a manner. The supposition is corroborated by the examinations which the British artist himself made of the single statues. Their heights diminishing on both sides so as to form the sides of a triangle; their attitudes, perfectly adapted to such a situation; all of them pressing towards the centre, formed by the mother as the highest statue; and then the remarkable neglect, and even intentionally imperfect workmanship of the back of most of these statues, which evidently shows that the artist had thought only of the effect produced by a front view of his work, destined for exhibition on a wall ;-all these considerations make it probable that this group was designed for such an architectural embellishment. Cockerell has illustrated this arrangement by a sketch, etched by himself on stone.

Niphon. (See Japan.) Nisber, Charles, D. D., first president of Dickinson college, Pennsylvania, was born in 1736, at Haddington, Scotland, and received his education in Edinburgh. For several years he officiated as minister of Montrose, and, in 1783, when the college in Carlisle was instituted, was invited to become its president. In 1785, he entered upon the duties of that station, and continued to fulfil them until his death, Jan. 17, 1804, in the sixtieth year of his age. The learning of doctor Nisbet was very extensive. He was an admirable classical scholar, and particularly conversant with Greek. At one time he could repeat the whole of the zEneid and of Young's Night Thoughts: indeed, his power of quotation generally was inexhaustible. He was endowed with genuine wit, and was sometimes inclined to be sarcastic. His sermons were impressive and powerful. In disposition, he was sincere, benevolent and humane.

Nisi Prius. 'Trial at nisi prius is a name often given, both in England and the U. States, to trial by jury, in the superior courts. The term originated, in the English courts, in the following way: Questions of fact, in all causes commenced in the courts of Westminster hall, are, by course of the courts, appointed to be tried on'a day fixed in some Easter or Michaelmas term, by a jury returned from the county wherein the cause of action arises; but with this proviso, -- Nisi prius justiciurii ad assisas capiendas venerint; that is, unless before the day fixed, the judges of assize come into the county in question, which they always do in the vacation preceding each Easter and Michaelmas term, and there try the cause; and then, upon return of the verdict given by the jury to the court above, the judges there give judgment for the party for whom the verdict is found. The commission under which these judges of assize act is called a "commission of nist prius," and, as the jury trials take place before them, while the judges in Westminster hall settle questions of law, these jury trials are called "trials at nist prius."

NISMES. (See Nimes.)

NITRATE OF SILVER. (See Silver.)

NITRE; the common name of nitrate of

potash. (See Potash.)

NITTIC ACID. (See Acid, and Nitrogen.) Nerrogen; the name of an clastic fluid, discovered by doctor Rutherford, in 1772. It derives its name from its forming the basis of nitric acid. Lavoisier discovered. in 1775, that it is a constituent part of the atmosphere—a discovery which was also made, at about the same time, by Scheele. It is most easily procured by burning phosphorus in atmospheric air, which abstracts the oxygen; and the residual gas, after agitation with water, or solution of potash, is pure hitrogen. By exposing air to the liquor formed by boiling sulphur and lime with water, we obtain, in the course of a few days, very pure nitrogen; also, if a few pieces of flesh or muscular fibre be put into a retort, and nitric acid, diluted with four or five parts of water, be added, and a moderate heat applied, nitrogen gas will be disengaged, not, however, in a state of complete purity. gas has been known by various names, as corrupted air, mephitic air, phlogisticated aar, as d azote, the latter appellation baving been derived from a privative, and Zon, life, in allusion to its untitness for respiration—a character, however, common to many goses. Nitrogen gas is invisible, insipid and inodorous. It is lighter than atmospheric air, its specific gravity being to that of the latter as 9722 to i. The weight of 100 cubic inches is 20.6527 grains. It is principally characterized by certain negative qualities, and by the nature of the compounds which it forms. It is uninflammable, and incapable of supporting combustion, a burning body immersed in it being immediately extinguished. It is equally incapable of supporting animal life by respiration; not. however, through any operation as a poison, but simply from the exclusion of oxygen. It is not perceptibly absorbed by water. Its peculiar characters, as a distinct substance, are better shown in its

chemical combinations. It unites with oxygen in different proportions, and forms compounds possessed of very peculiar chemical properties. Compounds of it with chlorine and iodine may be obtained; and it is a chief ingredient in the products of the animal kingdom. It unites, too, with hydrogen, forming one of the alkalies — ammonia. What purposes are served by the nitrogen in the atmosphere, is not clearly understood. Its most obvious use is as a diluent to moderate the action of oxygen; but, as it is found to exist in large quantities in all animal substances, it is probably of more direct utility to some part of the animal system.-Nitrogen unites with oxygen in 4 proportions, forming as many distinct compounds. These are, 1. protoxide of azote, or nitrons oxide; 2. dentoxide of azote, nitrous gas, or nitric oxide; 3. nitrous acid; 4. nitric acid. Nitrous oxide, or protoxide of azote, was discovered by doctor Priestley, in 1772, but was first accurately investigated by sir II. Davy, in 1799. The best mode of procuring it is to expose the salt called nitrate of ammonia to the flame of an Argand lamp in a glass retort. When the temperature reaches 400° Fahr., a whitish cloud will rise into the neck of the retort, accompanied by the copious evolution of gas, which must be collected over mercury for accurate researches, but, for common experiments, may be received over water. It has all the physical properties of common air. It has a sweet taste, a faint, agreeable odor, and is condensable by about its own volume of A taper plunged into it burns with great brilliancy, the flame being surrounded with a bluish halo. Sulphur and. most other combustibles require a higher degree of heat for their combustion in it than in either oxygen or common air. Specific gravity, 1.5277. It is respirable, but not fitted to support life. Sir II. Davy first showed that, by breathing a few quarts of it, effects analogous to those occasioned by drinking fermented liquors were produced. Individuals who differ in temperament are, however, differently affected. Sir H. Davy describes the effect it had upon the following persons thus: "Mr.James Thomson-involuntary laughter; thrilling in his toes and fingers; exquisite sensations of pleasure. A pain in the back and knees, occasioned by fatigue the day before, recurred a few minutes afterwards. A similar observation, we think, we have made on others: and we impute it to the undoubted power of the gas to increase the sensibility, or

nervous power, beyond any other agent, and probably in a peculiar manner. Mr. Robert Southey could not distinguish between the first effects and an apprehen-. sion of which he was unable to divest himself. His first definite sensations were a fullness and dizziness in the head, such as to induce the fear of falling. This was succeeded by a laugh which was involuntary, but highly pleasurable, accompanied by a peculiar thrilling in the extremitiesa sensation perfectly new and delightful. For many hours after this experiment, he imagined that his taste and smell were more acute, and is certain that he felt unusually strong and cheerful. In a second experiment, he felt pleasure still superior, and has since poetically remarked that he supposes the atmosphere of the highest of all possible heavens to be composed of this gas. In persons of great susceptibility, the inspiration of this gas has been known to produce unpleasaft and even alarming symptoms: by such it cannot be inhaled with impunity. Before concluding our account of it, we must explain the theory of its production from the nitrate

> Water, Nitrous oxide, 44, or 2 proportions \(\begin{cases} \text{Oxygen,} & 10, & 2 \text{proportions.} \\ \text{Nitrogen,} & 26, & 0. & \text{proportions.} \end{cases} \]

The nitric oxide, nitrous gas, or deutoxide of nitrogen, was discovered by doctor Hales, but its properties were first investigated by doctor Priestley. It is obtained by the action of diluted nitric acid on metals, the metal abstracting a portion of the oxygen from the acid, and converting it into nitric oxide, which assumes the clastic form. It is not always evolved pure, nitrous acid and nitrogen gas being often formed at the same time. Its purity is enhanced when the metal copper or quicksilver is used. It is a colorless gas, When mingled with common air, or any gascous mixture that contains oxygen in an uncombined state, dense, sufficating, , acid fumes, of a red or orange color, are produced, called nitrous acid vapors, which are copiously absorbed by water, and communicate acidity to it. Nitric oxide is thus distinguishable from every other substance, and, for the same reason, affords a convenient test for detecting the presence of free oxygen, wherever it exists in gaseous mixtures. It does not redden the vegetable blues; is sparingly soluble in water. Burning sulphur and a lighted candle are instantly extinguished of ammonia. The sole products of the operation above described are water and the nitrous oxide gas. Nitrate of ammonia is composed of

Nitric acid, . . . 54, one proportion; Ammonia, . . . 17, one proportion;

Nitric acid consists of

Nitrogen, 14, one proportion; Oxygen, 40, five proportions;

and ammonia of

Nitrogen, 14, one proportion; Hydrogen, 3, three proportions.

By the action of heat, these elements arrange themselves in a new order. The hydrogen takes so much oxygen as is sufficient for forming water, and the residual oxygen converts the nitrogen both of the nitric acid and of the ammonia into the protoxide of nitrogen. The decomposition of 71 grains of the salt will therefore yield

24, or 3 proportions. 27, or 3 proportions Oxygen, 14, or 3 proportions. Oxygen, 16, or 2 proportions.

> by it; but charcoal and phosphorus, if in the state of vivid combustion at the moment of being immersed in it, burn with increased brilliancy. It is quite irrespirable, exciting a strong spasm of the glottis, as soon as an attempt is made to inhale it. It is partially decomposed by being passed through red hot tubes. Two volumes of the nitric oxide yielded sir II. Davy one volume of nitrogen, and about one of carbonic acid, in his decomposition of it by means of burning charcoal, whence it is inferred to consist of equal measures of oxygen and nitrogen gases united, without any condensation. Nitrous acid is obtained by exposing nitrate of lead to beat in a glass retort. Pure nitrous acid comes over in the form of an orange-colored liquid. It is so volatile as to boil at the temperature of 82°. Its specific gravity is 1.450. When mixed with water, it is decomposed, and nitrous gas is disengaged, oceasioning effervescence. It is composed of one volume of oxygen, united with two of nitrous gas. The various-colored nitric acids found in commerce are not nitrous acids, but nitric acid, impregnated with hitrous gas. Nitric acid was first

obtained by distilling a mixture of nitre and clay, during the thirteenth century, by Raymond Lully, a chemist of the island of Majorca. Basil Valentine, in the fifteenth century, describes the process more minutely, and calls the acid water of nitre. Subsequently it was called spirits of nitre. and aqua-fortis. Nitric acid is prepared as follows: Three parts of pure nitrate of potash, coarsely powdered, are to be put into a glass retort, with two of strong sulphuric acid. To the retort is united a tubulated receiver, and heat is applied to the retort by a sand both. The first product that passes into the receiver is generally red and furning, but these appearances soon subside, and the acid comes over pale, and even colorless. After this it again becomes more red and funning, till the end of the operation. The acid obtained, provided the process be carefully conducted, will have a specific gravity of 1.5; and acid of this density may be obtained, amounting to t vo thirds of the weight of the nitre The receiver requires to be employed. refrigerated by cold water or ice. a strong nitric acid is not the object, but it is intended simply to manufacture the common dilute acid, called, in commerce, aqua-fortis, less sulphuric acid, in proportion to the nitre, will suffice: 100 parts of good nitre, 60 of strong sulphuric acid, and 20 of water, form economical proportions. Nitric acid, having a specific gravity 1.5, contains nearly 86 per cent. of acid, and 14 of water. It has been formed by electrizing, for a great length of time, a mixture of oxygen and nitrogen gases, in the proportion, by measure, of 5 parts of xygen to 3 of common air, or 7 oxygen to 3 nitrogen, or common air, by itself. f A little water is contained in the tube, holding potash in solution, which, after the experiment, becomes converted into nitrate of potash. This experiment was first performed in 1785, by Mr. Cavendish, who inferred from it that nitric acid, is composed of oxygen and nitrogen. Nitric acid, as obtained in the laboratories of the arts, frequently contains portions of sulphuric acid and of nuriatic acid. former is derived from the acid which is used in the process, and the latter from sea-salt, which is frequently mixed with nitre. These impurities may be detected by adding a few drops of a solution of nuriate of barytes, and nitrate of silver, to separate portions of nitric acid, diluted with 3 or 4 parts of distilled water. If the muriate of barytes cause a cloudiness or precipitate, sulphuric acid must be present ; _ if a similar effect be produced by nitrate

of silver, the presence of muriatic acid may be inferred. Nitric said is purified from sulphuric acid by redistilling it from a small quantity of the nitrate of potash, with the alkali of which the sulphuric acid unites, and remains in the retort. To separate the muriatic acid, it is necessary to drop a solution of nitrate of silver into the nitric acid as long as a precipitate is formed, and draw off the pure acid by Nitric acid possesses acid distillation. properties in an eminent degree. unites with and neutralizes alkaline substances, forming with them salts, which are called nitrates. When of a specific gravity of 1.5, it emits dense, white, suffocating fumes, if exposed to the air, from which it attracts moisture, and experiences a diminution in its density and strength. A rise of temperature is occasioned by mingling it with water in a certain proportion. From its strong affinity for water, it occasions snow to liquely with great rapidity. It boils at 248° Fahr, and may be distilled without suffering material change. It may be frozen at about 50° below zero: when diluted with half its weight of water, it becomes solid at 14° F'. Nitric acid acts powerfully on substances which are disposed to unite with oxygen; and hence it is much employed by chemists for bringing bodies to the maximum of oxidation. Nearly all the metals are oxidized by it, and some of them, such as tin, copper and mercury, are attacked with great violence. If flung on burning charcoal, it increases the brilliancy of its combustion in a high degree. and phosphorus are converted into acids by its action. All vegetables are decomposed by it. In general, the oxygen of the nitrie acid enters into direct combination with the hydrogen and carbon of those compounds, forming water with the first, and carbonic acid with the second. This happens remarkably in those compounds in which, hydrogen and carbon are predominant, as in alcohol and the It effects the decomposition of animal matters also. The enticle and nails receive a permanent yellow stain when touched with it; and, if applied to the skin in sufficient quantity, it acts as a powerful cautery, destroying the organization of the part entirely. When exidation is effected through the medium of nitric -acid, the acid itself is commonly converted into the deutoxide of nitrogen, which is sometimes evolved in a state of purity, but more commonly mingled with nitrous oxide and nitrous acid gases. The direct solar light depxidizes nitric acid, resolving

a portion of it into oxygen and nitrous nitrogen. When the vapor of nitric acid is transmitted through red-hot tubes, it suffers complete decomposition, and a mixture of nitrogen and oxygen gases is the product. Nitric acid is of considerable use in the arts. It is employed for etching on copper; as a solvent of tin, to form with that metal a mordant for some of the finest dyes; in metallurgy and assaying, in various chemical processes, on account of the facility with which it parts with its oxygen and dissolves metal; in medicine as a tonic, as also in the form of vapor to destroy contagion. For the purposes of the arts, it is commonly used in a diluted state, and contaminated with the sulphuric and muriatic acids by the name of aqua-fortis, two kinds of which are found in the shops,—one called double aquafortis, which is about half the strength of mitric acid; the other simply aqua-fortis, which is half the strength of the double. A compound made by mixing two parts of the nitric acid with one of muriatic, known formerly by the name of aqua regia, and now by that of nitro-murialic acid; has the property of dissolving gold and platina. On mixing the two acids, heat is given out, an effervescence takes place, and the mixture acquires an orange color. gen combines with chlorine and iodane to form two very remarkable compounds. The first of these, the chloride of nitrogen, is formed by the action of chloring on some salt of ammonia. Its formation is owing to the decomposition of ammonia (a compound of nitrogen and hydrogen) by chlorine: the hyllrogen of the ammonia unites with chloring and forms muriatic acid, while the nitrogen of the ammonia, being presented in its nascent state to chlorine dissolved in the solution, enters, into combination with it. The chloride of nitrogen is formed gradually, when a glass receiver, filled with chlorine gas, is inverted over a bowl containing a solution of inuriate of ammonia, and falls in little. globules through the fluid to the bottom of the dish, whence it is withdrawn with the utmost care by means of a glass syringe. On being injected into a metallic mortar, or leaden dish containing a little volatile oil, or phosphorus in small pieces, it detonates with extreme violence. specific gravity is 1.653: it is not congealed by the intense cold produced by a mixture of snow and salt; may be distilled at 160° Fahr., but explodes at a temperature between 200° and 212°. It consists of chlorine 144, or 4 proportions; nitrogen, 14, or 1 proportion.—lodide of

From the weak affinity that" exists between iodine and nitrogen, these substances cannot be made to unite directly; but, when iodine is put into a solution of anmonia, the alkali is decomposed; its elements unite with different portions of iodine, and thus cause the formation of hydriodic acid and iodide of nitrogen. The latter subsides in the form of a dark powder, which is characterized, like chloride of nitrogen, by its explosive property. It detonates violently as soon as it is dried. and slight pressure while it is moist produces a similar effect. Heat and light are emitted during the explosion, and iodine and nitrogen are set free. It consists of one proportional of nitrogen to three of iodine. With regard to the nature of nitrogen there has been, and still exists, considerable diversity of opinion. Berzelius has inferred, from speculations connected with the doctrine of definite proportions, that it is a compound of oxygen with an unknown base, to which he has given the name of nitricum, and has fixed the proportions at 44.32 of base, and 55.68 of oxygen; others, on the contrary, have affirmed, as a consequence of this doctrine, that nitrogen can contain no oxygen-a proof of the little value to be attached to The strongest argusuch speculations. ments for the compound nature of nitrogen are derived from its slight tendency to combination, and from its being found abundantly in the organs of animals which feed on substances that do not contain it. Its uses in the economy of the globe are little understood. This is likewise favorable to the idea that its real chemical nature is as yet unknown, and leads to the hope of its being decomposa-It would appear that the nitrogen of the atmosphere and oxygen combine in other proportions, than those in which they exist in the air, under certain circumstances. Thus we find that mild calcareous or alkaline matter favors the formation of nitric acid in certain regions of the earth; and that they are essential to its production in our artificial arrangements for forming nitre from decomposing animal and vegetable substances.

NITROUS OXIDE. (See Nitrogen.)
NIVOSE. (See Calendar, vol. ii, p. 403.)
NIZAM DJEDID. (See Ottoman Empire.)

Nizza. (See Nicc.)

NOAH; the patriarch of whom we are told, in the book of Genesis, that God chose him, for his piety, to be the father of the new race of men which peopled the earth after the deluge. Having been

admonished by God of the coming flood he built a vessel by the direction of Jehovah, into which he entered with his' family, and all kinds of animals. (See Deluge.) After the waters had subsided from the earth, the vessel which contained the progenitors of all living creatures, rested on mount Ararat, in Armenia, where Noah offered a thank-offering to God, and was assured that the earth should never again be destroyed by a As a sign of this covenant with Noah, God set the rainbow in the clouds, Permission was now granted to the human race to eat flesh, provided they did not eat it raw with the blood; and murder was declared punishable by death. Noah then began to cultivate the earth, and planted a vineyard, and, having made wine, became intoxicated. While under the influence of the wine, his son Ham ridiculed the exposure of his father, while his other sons, Shem and Japheth, reverently covered him with a garment. When the patriarch awoke, and was aware of what had taken place, he gave his blessings to the filial picty of the latter, and pronounced a curse of servitude upon the posterity of the former. Noah died at the age of 950 years, 350 years after the flood.

NOAILLES; one of the oldest noble families in France. Among the members of this family, which has ever been invested with the first offices in the kingdom, are, 1. Antoine de Nouilles, celebrated on account of tus embassies under Henry II. The abbé Vertot has published an account of them. His brother, the bishop of Acqs, was also employed on several important and difficull diplomatic missions to England, Italy, and even Constantinople .- 2. Anne Jules, duke of Nouilles, born 1650, inherited from his father the first company of the gardesdu-corps, and, in the war of 1689-97, commanded a corps-d'-armée in Catalonia; in 1693 was made marshal, and, in 1694, gained the battle of the Ter against the Spaniards. He died in 1708.—3. Louis Antoine de Noailles; brother of the preceding, archbishop of Paris and cardinal. On account of the aid which he afforded to Quesnel, he was persecuted by the Jesuits, and especially by Le Tellier, the conlessor of Louis XIV. They prevailed on the pope to issue the bull Unigenitus (q. v.), which was resisted by Noailles, as archbishop of Paris, till he was finally compelled to yield, in his 78th year. He died soon afterwards, in 1729.—4. Adrian Maurice, duke of Nouilles, son of the abovementioned Anne Jules, served with distinction in Spain, in the Spanish war of

succession, was created grandee of Spain, of the first class, and, in 1698, married Françoise d'Aubigné, a niece of madame de Maintenou. During the minority of Louis XV, he was president of the council of finance, and member of the council of regency, which he left, however, in 1721, rather than concede the presidency to cardinal Dubois. He was exiled by the influence of this intriguing priest, after whose death he was recalled, in 1723, when he was reinstated in his former offices. In 1734, he served under Berwick in the campaign on the Rhine, and at the siege of Philipsburg, and, after the death of Berwick, received the marshal's staff. In the following year, he com-manded the French army in Italy. When the Austrian war of succession broke out. after the death of the emperor Charles VI, Noulles received a command on the Rhine. In 1743, by the unseasonable impetnosity of his nephew, the count of Grammont, he lost the battle of Dettingen, and, by this means, the fruits of the wise measures by which he had brought the English army to the verge of ruin. His age no longer permitting him to fight at the head of armies, he entered the With splendid talents, he ministry. united all the faults of the courtiers of the times. His friendship for marshal Save induced him, although an elder marshal, to serve him as first aid in the battle of Fontenoi. His two sons were, in 1775, made marshals of France. his death, the abbe Millot published Mémoires politiques et militaires pour servir à l'Histoire de Louis XIV et de Louis XV, composés sur les Pièces originales recueillies par Adrien Maurice, Duc de Nouilles, &c., which contains interesting information, not only respecting the history of the wars of Louis XIV and XV, but also respecting the history of Spain, under Charles II, and Philip V. In later times, the following members of this family have rendered themselves distinguished.— Louis, viscount of Nonilles, a general, and member of the first national convention. in 1789. Chosen by the nobility a deputy to the states-general, he proposed to his chamber, June 13, to form a union with the third estate. Montmorency, Rochefoucauld, Lafayette, &c., voted in the affirmative, and, after long debates, forty members of the chamber of nobles united with the national assembly, June August 1, Noailles was the first who exhorted the clergy and nobility in the assembly to renounce their privileges. as injurious to the common weal. After

rank (as princes, counts and lords), together, with the warriors (consisting of knights bound to do service in war and at the court), which latter were not always considered as perfectly free, were distinguished from the persunts and common citizons, who were bound to perform the common laborious services These latter, however, are not to be considered altogether in the light of hondmen. further progress of these civil distinctions, and their relations to the people, took a very different course in the different countries of Europe. In England, Scotland, Spain, and to some extent in Italy, the higher nobility, attached to the titles of lords and barons, descended only to the eldest son. The younger sons, even in case of preferment in civil life (their rank in England is established by law), belong essentially to the mass of the people. They engage in various kinds of business; they not only devote themselves to the clerical profession, and to military service; but become lawyers, merclaints, proprictors of manufactures, &c. In England, hereditary nobility, including various classes of titles, e.g. those of dukes, pairquises, early viscounts and barons (see England) is rather more personal. There are also fendal tenures merely titular, to which certain privileges and honors are attached, the free exercise of which is allowed to every proprietor; but the propri tor does not belong to the nonney, in its rule to this distinction by a state and furly, one will be patent. In Spain and Indy, or anionalist, hand, the same rank (that of patienties, princes, lakes, marquises and late. Its) depends, in a greater measure, the property; for these titles, though spactures conred by the monarchs, are mostly con-

ted with estates and often attached to in Upper Italy, the conti di terra of Venice in former times. The shed Spanish tarrilies collect, in er, a great number of such titles, nstitute an object of their pride. called gorras (cans), and some-int to four or five hundred. his rank is common to all the

Carlovingian styrasty; in England, with colution, only to the eldest son; and the fine conquest of the Normana, in the tenth, younger sons were obliged to seek their and eleventh centuries; and was after forme either in the army or the church, wards spread over all Europe; for since Every meaner employment, even mercanthat time, dignities, as well as lands, have tile business, was followed by the loss of become hereditary. Under wards forms nobility. The nobility of England has and combinations, the nobles of the first never risen to sovereignty, except that rank last privaces, counts and lords, trimet. some provinces which formerly were domains of princes of the royal family (as Lancaster, Cornwallis), and some viscounties (Durham, Chester, the isle of Ely, and especially the isle of Man, belonging to the duke of Athol), enjoyed, as counties palatine, so called, subordinate rights of government. The sovereignty counceted with the ancient fiels of the French princes as the dukedoms of Normandy, Bretagne, Guienne, Burgundy; the counties of Toulouse, Champagne, Flanders; and the territories of Dauphine, Provence, Franche-Comté, Venaissin, &c.took its rise at a very early period, and had already become complete, when Hugh Capet ascended the throne. But Franco was fortunate enough to unite, by degrees, all these extensive fiels with the crown, so that only a few small sovereignties (as the princedons of Bouillon, Dombes, Orange, Avignon and Venaissin, &c.) have maintained themselves as such to more recent. periods. In the age of Louis IX, appeals from the courts of the barons to the suprome courts of the king and parliaments were introduced, and were followed by agradual extension of the king's authority over the territories of the barons; and finally, under the reign of Louis XIII, the power of the grandees was completely destroyed by Richelien. The course The course. which the nobility took in Germany was : Here the ancient dukes of Ixony, Bavaria, Franconia, Suabia, Lotharingia, and, next to them, the margraves in the east and north of the Gorman empire, obtained, at the same time as in-France, the rights of sovereignty; and the title of count became partly hereditary, partly an appendage to the ecclesiastical catablishments. The emperors succeeded in annihilating these ancient principalities, but profited little by it, for new soverrigoties soon took the places of the ancient dukedoms, inferior in size and power but equal to them in the extent of their rights and spanish farmines collect, in to them in the extent of their rights and great number of such tiles, not no object of their pride.

d gorras (caps), and some to four or five hundred.

s rank is common to all the enoble family. The rights in order of nobility, in which not only the round the round the round the round the rank but also the property was hered, and the foundal estates, it ry, and became the common mentance of the whole family. The principle in this system is peculiar to the German reigning families and princes, who, bestates, which was never established in any sides the right of sovereignty over their other country of Europe, namely, that the own territories, had a part in the governmenter must be of equal rank with the ment of the empire, by their contractions. father, in order to place her children in the full possession of their father's rights. Many even princely families, as Buden, Annalt &c., have transgressed this princi-ple; but others adhered to it with great strictness. The same principle has been extended to the lower class of the German nobility. 'In their case, however, it affects only the enjoyment of certain privileges common to the whole body of uobilityprivileges by which the German nobility is more strictly distinguished from the middle classes of freemen than that of any other country. In the rest of Europe, not even the highest class of nobility recognises this principle. In France, the roval family alone affords no example of a marriage contracted with persons of a lower rank, though the law would not have interfered. The legitimated branches of the royal family, the offspring of mistresses, the princes of Vendome, Verneuil, Vermandois, Maine, Toulouse, Penthievre, &c., which are now extinct, Louis XIV did not hesitate, in his will, to recognise as capable of succession to the French throne, in spite of their descent, not merely from parents of unequal rank, but. even from an illegitimate connexion; and the same right could never have been contested in regard to children of a legitimate connexion between parents of unequal rank. In the noble families of France, the rank of the mother was likewise of no consequence; the whole importance · f the family rested on the lineage of the The same is the case in England, where intermarriages between the families of respectable citizens (merchants, bankers, brewers, advocates, &c.) and the highest nobility are not uncommon. Thus the wife of Whitbread, the celebrated parliamentary orator, and citizen and brewer of London, was a sister of carl Grey. The first wife of king James 11 was the daughter of chancellor Hyde, who afterwards became earl of Clarendon: and her daughters, Mary and Anne, succeeded to the throne of England. Simiflar examples may be found in other countries. In Germany alone, the interests of them the highest rank of nobility, equal the kindred of princes, as well as the exclusive claims of the noblity to the chapwas still a strict distinction, in Germany,
ters and prehends of the ecclesistical or, between the ancient princes, who had
ders have produced those rigid principles risen to this dignity before 1850, and above-mentioned. Garmany is likewise those of a more recent date. The more, the obliveousity which affords an example flowerer, the power of the Garman page-ple of a select nobliny composed of singlities increased, the more the impor-

and vote in the diet, or ar least a share in the collective vote of the preliminar or of the four bodies of counts. For some rights of sovereignty belonged also to the knights of the empire, who did not belong to the select nobility. The limits of this select nobility were extremely uncertain and & contested, though very important to be settled, on account of the restrictions on the marriage of its members. The wink of the select nobility was partly personal, partto ecclesinstical princes, hishops and affection bots, many of whom were, at the same time, actual sovereigns; but many possessed only the dignity of princes of the empire, without the rights of sove-'s reignty. In most of these ecclesiastical principalities, the German nobility had excluded untitled men of learning and talcut, against the will of the pope, and his express order, promulgated in the treaty of Westphalia (art. v, § 17). The highest ! degree of hereditary nobility was peculiar to the families of the princes and counts of the empire, and confined to Germany. It is true many French, Italian, Spanish and English families had the title of princes, dukes and marquises (English). dukes and marquises are also called princes in official documents), but the German princes considered few of themas their equals. To this class belong, in France, those six foreign families which enjoyed at the French courts the rights of princes strongers, on account of their relationship with sovereign houses, or on account of their descent from former sovereigns of Bretagne and Aquitania. These families in France were those of Lotharingia, Savoy, Grimaldi (princes of Monaco), Rohan, Latour d'Auvergue (dukes and princes of Bouillon). Some Polish familles belong, also, to this class, ; as the Radzivills, Czartofiskia, &cc. In Sweden and Denmark, a select nobility, of this kind, has never existed. Thought many German thindlies of this rank have lost their sovereignty, yet the act of the German confederation that conveiled to

tance of the nobility decreused. On this . account a society was formed, in 1815, called the chain of nobility, for the purpose of restoring and promoting the intersuccess. The English nobility, composing the house of lords, consists of five ranks: duke, marquis, earl, viscount, baron. The nobility in France is designated by the title pairs the France; for both the ancient and modern titles of nobility, as priner, due, marquis, comte, viconte, baron, occur, also, without pcerage. The lower mobility (gentry in England), considered as a separate rank, is of later origin. England, every one belongs to it who does not engage in any mean employment, and, for this reason, is entitled to the appellation esquire, and a coat of arms. In Spain, any one may call himself hidalgo whose ancestors have not been engaged in mean employments; and in France this dignity was connected with many even insignificant offices, and, of course, very easily obtained. Great importance was, however, attached to ancient nobility, that is, nobility which could not be traced to its origin. Nobility of 400 years' duration was requisite for a presentation at court. The Storthing of Norway, as was mentioned above, abolished nobility in 1821. The Russian nobility, though its origin is not directly derived from the German tribes, has appropriated to itself all its degrees and titles. (See Russia.) In Livonia and Esthonia, the ancient nobility, founded on conquest, is, as yet, in existence. The dominion of the Russian pobility over their peasants gives a political importance to this rank. though destitute of the rights of sovercienty.-Nobility was very early conferred by patent. As soon as the nobles had assumed the character of a distinct rank in the state, the monarchs also availed themselves of their right of conferring degrees of nobility, and insisted upon the principle that, in a monarchy, no privilege could be more aucient, or could have any other origin, than the prerogative of the monarch bimself. Philip III therefore first began (1270) to grant charters of nobility in France, and Germany soon followed his example. The degrees of the lower nobility in Germany were, I. the sithe Von; 2. Edler von; 3. Ritter; 4. Ban-merher; 5. Freyher; 6. Count. Their In a note near the end of chapter it of the able de Pradi's L'Europe darie le Cangrès d'Aic-la-Chapelle, it is sated that, before the vere enfarged to a considerable extent by law, as well as by custom and practice.

They enjoyed immunity from taxes, and an exclusive right to the highest public mist have reduced the revolution. The disasters of the revolution mist have reduced them to the revolution mist have reduced them to the revolution.

100 The most offices, especially in the army. important of these privileges have, in modern times either been limited or entirely abolished, because they were inconests of the nobles; but it met with little sistent with justice, and an obstacle to the prosperity of the state. The French revolution first deprived the nobles of that. country of their oppressive privileges and exclusive rights, as that of jurisdiction, &c. (decree of August 4, 1789); and, after the overthrow of the feudal system by a number of laws, the decree of June 19, 1790, abolished hereditary rank entirely. The senate under Napoleon (August 14, 1806), and the decree of March 1, 1808, gave rise to a new hereditary nobility, with the titles of princes, dakes, counts, barous and chevaliers, which descended, however, only to the eldest son. After the restoration of the Bourbons, the ancient nobility reclaimed their former rights and privileges.* Thus nobility has again been generally introduced into all the states of Europe, except Norway, where the Storthing has abolished it by the three successive decrees of 1815, 1818, and 1821. The king, indeed, was unable to prevent it; but, on the principle of conforming the social system of his country to the civil organization of the neighboring states, he proposed the establishment of a new hereditary nobility, which should be conferred by the king on persons who had benefited their country, and which should descend to the eldest son. But the Storthing rejected the proposal, because it was against the twenty-fifth article of the constitution of 1814, which declares that no hereditary privileges, personal or real, can be conferred on any native of Norway.

Noble; an ancient money of account. containing six shillings and eight pence.

Noon; the point where the orbit of a

planet intersects the ecliptic. Nola; a town near Naples, in Lavora, said to have been built by the Etrurans, before Rome; 13 miles east of Naples; lon. 14° 20' E.; lat. 40° 53' N.; population, 8550; hishop's see. It was once a Roman colony, rich and flourishing, and is yet a handsome town. The silk spun in . the neighborhood is much esteemed. Bells are said to have been first made here, and here Augustus died. Near it Hannibal was twice defeated by Marcelfus.

on exclusive right to the highest public most have reduced them to less than 40,000 "

Nollerins, Joseph, an English sculp- change commonly takes place by degrees. tor, born in London in 1737, was the son of a painter, was placed early under Scheemakers, and in 1759 and 1760, gained premiums from the society of arts. 'He subsequently repaired to Rome, where he had the honor of receiving a gold medal from the Roman academy of painting and sculpture. He remained nine years at Rome, during which time he executed the busts of many Englishmen of distinction, and returned in 1770... Nollekins was chiefly distinguished by his careful and accurate imitation of nature, and by the absence of any peculiarity of manner. His Venus with the Sandal is esteemed his principal ideal production; but his professional reputation rests principally upon his busts. He died April 23, 1823 - See Smith's Nollekins and his Times (2 vols., 8vo., 1828).

Nolle Prosequi is a stoppage of proceedings by a plaintiff, and is an acknowledgment that he has no cause of action.

NOLLET, John Antoine; a distinguished cultivator of natural philosophy and natural history, born at Pimbré, near Noyon, 1700, of poor parents. He received his first instruction at Clermont and Beauvais. and then went to Paris, where he became intimate with Réaumur, Dufay, Duhamel and Jussieu. In 1738, count Maurepas first established a professorship of experimental physics for Nollet, who was also made member, of several scientific socie-4.8. To extend his acquaintance with science, he went to England and Italy. In 1744, he was appointed to instruct the dauphin in experimental physics at Versailles. He employed himself particularly in experiments on electricity. Nollet died at Paris, 1770. His works are principally in the Memoirs of the Academy of Sciences at Paris. His treatise on the Hearing of Fish is particularly esteemed. · He also wrote Lècons de Physique expérimentale (Amsterdam, 1754, 4 vols., 12mo.), and L'Art des Expériences (Amsterdam, 1770, 3 vols., 12mo.).
Nomans (from the Greek); tribes

without fixed habitations, generally engaged to the tending and ruising of cattle, and changing their abode as inclination prompts. But landed property and ag-riculture are the chief supports of a per-manent civilization, so that the nomads are far behind agriculturists in this respect, themselves. Nomadic tribes are seldom found to quit was condemned at Saissons, 1002, and the their wandering life, until they are com- realists, who disagreed among themselves pelled to do so by being surrounded by only upon some unimportant positions. pelled to do so by being surrounded by only upon some unisapertant positis, he fribes in settled habitations of unless they came the predominating school. Diff can make themselves masters of the set in the beginning of the fourteenth centu-tlements of a civilized nation. But this ry, the dispute of the nominalism and

Some of the greatest revolutions in history have been effected by these wandering tribes. North Africa, the interior of North and South America, and the northern and middle parts of Asia, are still occupied by nomads. Different tribes, however, possess different degrees of civilization. Some are little better than bands of robbers.

Nomenclator was, with the Romans, 2 a servant, who, at great festivals informed the guests of the name and ingredients of the dishes-not a bad tashion. There were more important nomenclators, whose. business it was to attend candidates, for. public offices, and suggest to them the names of the persons whom they met that they might be able to address them family iarly, and thus obtain popularity. Those Romans who possessed very many slaves. had one nomenclator, who knew the names of all of them.

Nominalists, in dialectics. A clear view of nominalism depends upon a proper understanding of the scholastic philosophy. Charlemagne had established schools (scholæ) for the education and formation of clergymen, in which the (so, called) seven liberal arts (the trivium and the quadrivium) were taught. As in those times research and speculation were pot allowed to go beyond the dogmes of the church, philosophy, or rather dialectics. applied itself only to theology. It was at first enthrulled by the fetters of the schools, and, at a later period, by the fear of the imputation of heresy. Thus originated, in the limited field to which the human mind was confined, a system of dialectics, which sought satisfaction in logical subtletics and empty forms, but which, however, tended much to exercise the acuteness of the European nutions. A great schism in scholastic philosophy, was caused by (the so called) nominalism. the founder of which was John Roscellin, canon of Compiègne, who maintained, umong other doctrines their considered heresies, that all general ideas are mere words, nomina, numes (flatus vocis). Tho & Realists (from res, thing), on the other hand, maintained that general ideas are. not formed by the understanding, but are founded in reality in the objects themselves; are, in fact, the essence of the things The decuring of Roscellin

at Paris), in such a way that the nominal. ists were at length victorious. (See D'Israeli's Curiosities of Literature.) Among the supporters of nominalism should be mentioned the celebrated John Buridan of Bethune (1350), Robert Hol-cot (died 1349), Gregory of Runini (died 1358), Henry of Oyta, Henry of Ressia (died 1397), Nicholas Oresmins (died 1382), Mathew of Cracow (died 1410), Gabriel Biel (died 1495). The nominalists were, indeed, often persecuted (in Paris, 1339, 1340, 1409, 1473); but they gradually gained the ascendency in the universities of France us well as in Germany. They are memorable in the history of philosophy in the middle ages, since from them proceeded a spirit of more liberal investigation, independent of dogmatic theology -a spirit which opened the way to the higher philosophy of subsequent times.

Nov. Jean Claude Richard de Saint, born 1727, died at Paris, Nov. 25, 1791, member of the academy of painting and sculpture at Paris, known for his Voyage pittoresque de Naples et de Sicile (1782-36, 5 vols., fol.), which is principally esteemed for the (417) plates. He thinself etched with much ability. Besides the engravings published with his travels, he also published a number of engravings from autiques and works of Le Prince, Boucher and Fragonard. (See Denon.)

Non, or Nun. (See Aiger.)

Non-Activity, principle of, in the law of nations. (See Neutrality.) Non Compos Mentis. A distinction is made between an idiot and a person non compos mentis, the former being constitutionally destitute of reason, the latter deprived of that with which he was naturally endowed. But, to many purposes, the law makes no distinction between the two. It is a general maxim of the law that a person not possessed of reason can-. not bind himself by contract, for he is inenpuble of giving that consent which is the foundation of all obligation. And it makes no difference, in this respect, whether the incapacity arises from a temporary mental alienation or a natural idibdy, except that in the latter case the act of an idiot is absolutely void, whereas that of a lunatic is only voidable at the election of the insane person or his guardian. A maxim was formerly supposed to have a cript into the English law, which in some

the realists was revived by the English's degree, deprived persons, subject to tem-Franciscan William of Occam, a scholar porary insumty, of the advantage of the of the famous Duns Scotus (who taught doctrine, that they could not bind themselves by contract while in this state." The philo- This maxim was, that no one should be sophical adversaries gave vent to their permitted to stultify himself, that is, to say feelings, in the spirit of the time, by blows. that when he made such a deed or conthat when he made such a deed or contract, he was bereft of his reason; for, said the judges, when a defendant made .. this plea, how can you remember that you .. were non compos mentis? Sir William Blackstone exposes the absurdity of this maxim, which was adopted, says Mr. Fonblanque, "in defiance of natural justice and the universal practice of all civil-ized nations of the world." The maxim has been disregarded by English judges. in some cases, and there is no recent evidence of its being now considered a part of the English law; and it is not law in the U. States, where a person is permitted to allege that he was non compos mentis at Another . the time of making a contract. very material consideration respecting persons destitute of reason is the custody and treatment of them, which very naturally belong to their relatives; but it would be totally unsafe to leave them absolutely to determine when any one is in-It very frequently happens, indeed, that the relatives or friends of a person." deranged, restrain and confine him without any intervention of a magistrate, or any legal process for determining the fact of his mental alienation; and instances have occurred of the greatest cruelty and abuse practised under pretence that the subject of them was non compos mentis; and the occurrence has been made the foundation of incidents in fictitious narratives. Such abuses do not take place, however, from a want of provision in the laws to protect the individual from them; for any person under arrest and detention for any crime whatever, has a right to be brought before a magistrate on a writ of habeas corpus, that the cause of his restraint may be inquired into. This process affords an immediate remedy, if any one takes sufficient interest in the welfare of the; person detained to make application for it it in his behalf. Besides this remedy, the laws of some states provide a precautionary process, whereby the fact of mental incapacity or alienation is previously inquired into before personal restraint is perceedings must be had in order to take from any person the management of his 27 10 M property. 1.14

Non-Computator. (See Calorie, and Electricity.) PROPERTY OF THE PROPERTY OF THE

Nox-Convormers, those who refuse to join the established church in England. The name was at first particularly applied to those clergymen who were ejected from their livings by the act of uniformity in 1662. Their number was about 2000. The act required that every clergyman should be reordained, if he had before reccived episcopal ordination; should declare his assent to every thing contained in the book of Common Prayer; take the outh of canonical obedience abjure the solemn . league and covenant; and renounce the principle of taking arms against the king. All the royal promises of toleration and of indulgence to tender consciences were The Presbytethus cluded and broken. rians, Independents, &c., refused to couform, and were exposed to the most cruel persecutions. By the Five Mile Act [1665], it was enacted that no dissenting teacher, who would not take the outli above-mentioned, should approach within five miles of any corporation, or of any place where he had preached after the act of oblivion; this act was intended to deprive them of all means of subsistence. Other acts of a similar character were passed; but, on the accession of William III, these penalties, and disabilities were removed by the teleration act. Some of these oppressive provisions were revived during the reign of queen Anne, but were finally repealed in 1718. The name Nongronformists, in consequence of this change of circumstances, gave way to that of Dissenters. The chief dissenting sects are the Presbyterians, Independents, Baptists, Quakers, Methodists and Unitarians, the Catholics not being commonly comprehended under this term. (See Catholic Emancipation.) The statute 53 Geo. 111, c. 60, repeals so much of former acts as excepted persons denying the Trinity from the benefit of the teleration act, or imposed penalties on such persons, Protestant dissenters were thus at least practically · delivered from penal restrictions in the * exercise of their religion. The repeal of the corporation and test acts in 1828, removed the civil disabilities under which they had previously been placed. Protestant dissenters are estimated to be at island on the coast of East Friesland, to leust one half of the population. (See Ecclesiustical Establishments, Paritans.)
Nones. (See Calendar, vol. 11, p. 402)

Non-Jurons, (See Jacobiles.) Nonnus; a later Greek poet, born at Panopolis, in Egypt, who lived, according to some, in the beginning, according to others at the end, of the fifth century. He is the author of a poem cutitled Dionysiaca,

in 48 books, in which the expedition of Barchus (Dionysus) to India in described. The style is inflated and prolix; the descriptions go too much into detail: the epithets are often unnocessarily accumulated and far-fetched; but the versification is good, and the tone is animated. Nonnus also wrote a paraphrase, in verse, of the gospel of St. John, which may serve !as a commentary, being very perspicuous, though not very poetical.

Nonore, Claude François, a Jesuit, member of the academy of Besangon, born 1711, devoted himself principally to occlesiastical history and to theology, and distinguished himself by his Erreurs de Foltaire (Avignon, 1762, 2 vols.; 5th ed., 1770, 12mo.), which display much learning, and are written in a moderate tone. His purpose is to correct the errors and false statements, made partly from ignorance, partly from prejudice, by Voltaire, in his Essai sur les Mours et l'Esprit des Nations; but Voltaire overpowered him by his wit. Nonote died at Besançon, Sept. 3, 1793. -See Œuvres de l'abbé Nonote (Besancon, 1816, 7 vols.).

NONPAREIL; a sort of small printing type; as, for example, a b c.

Nonstry. Where a person has commenced an action, and, at the trial, fails in his evidence to support it, or has brought a wrong action, he is nonsuited. There is this advantage attending a nonsuit, that the plaintiff, though he pays costs, may afterwards bring unother action for the same cause, which he cannot do after a verdict against him.

NOOARIVA, OF NOOKARIVA. (See Washington Islands.) .

NOOTKA SOUND; a bay of the North. Pacific ocean, on the western const of North America, discovered by cantain-Cook, in 1778; Ion. 120° 30' W.; Int. 49° The sound embraces several 35/ N. The water is from 47 to 90 fathoms deep. There are many anchoring places and good harbors. The shores are inhabited by Indians, and the land is killy. The climate is much milder than ! in the same latitude on the eastern coast.

NORDENEL, OF NORDERNEY; a shoully which there is a foot-path from the conting On the north nent at low tide. western side is a village, with 550 inhabitants (mostly scamen), and an establishment for sea-bething, much reserted to during the summer. On the south-east side are downs from 40 to 80 feet high.

Nordances, a town in Suabia, with 7560 juliabitants, in 1802 seame into the

possession of Bavaria. Years' War). The battles of 1645, 1796, and 1800, have also contributed to make the place memorable.

None. (See Thames.)

NORFOLK; a borough and port of entry in Norfolk county, Virginia, on the northeast side of Elizabeth river, eight miles above its entrance into Hampton read. It is 32 miles from the sea, 110 by water, below City Point, 112 from Richmond, and 220 from Washington; Ion. 76° 10; lat. 36° 52' N.; population in 1810, 9193; in 1820, 8478; in 1830, 9816. Neutror the public nor the private buildings are remarkable for elegance, and the streets are crooked and irregular. The site of the town is level, low, and in some places marshy. There are houses of worship for Episcopalians, Presbyterians, Baptists, Roman Catholics and Methodists. town affords much good society, and the inhabitants are distinguished for their hospitality. Norfolk has more foreign commerce than any other port in Virginia. The harbor is a beautiful basin, nearly a mile wide, and is rafe and commodious. It is strongly defended by three forts-fort Norfolk, on the north-east side of Elizabeth river, about a mile below the town: fort Nelson, on the south-west side of the river, a little higher than the former. and just below the town of Portsmouth; and a large and strong fort on Craney · island, five miles below the town. . Washington Point, between the east and wost branches of the river, about a mile from Norfolk, there is a marine he pital, which is a handsome brick building. About a mile from the town, on the opposite side of the river, is the town of Portsmouth; and a little higher up the river is the village of Gosport, containing a United States pavy-yard.

NORFOLK, DUKE OF. (Sec Howard,

Thomas.)

North. The machine used in Spain under the name of norid, consists of rexolving buckets; like the Persian wheel. "But instead of a single wheel, two drums or trundles are employed, and the buckets are attached to ropes or chains passing round them. In Spain, earthen pitchers are said to be used, but in other countries wooden buckets are employed, like those of an overshot wheel.

Nonrouse was, among the Romans, that part of the south of Germany which is situated between the Save, the lake Pelso, eric Lebrecht, count of, born at Studgard, Rheetia, Vindelicia and the Dantibo bus

The Swedes were its boundaries were not the same at all descated here Sept. 6, 1634, for the first times. The Celts inhabited this country.

NORMAL YEAR, in German history the year 1624, because, in the peace of Westphalia, the state of the ecclesiastical rights and privileges, as, they existed on Jun. 1, 1624, was taken as the standard for the regulation of the ecclesiastical relations between the three sects in Ger-

niony.

NORMANBY, Constantine George Phipps : now lord Mulgrave; late lord Normaniby), born in 1797, was educated at Harrow, and entered Trinity college, Cambridge. On coming of age, he took his seat in the house of commons for Scarborough, and his maiden speech, in favor of the Catholics, attracted much attention. He also seconded, and ably supported, at this time, lord John Russell's first motion in favor of parliamentary reform. His father, how-ever, being of the Pitt school, he retired from public life, in which his opinions did not coincide with his party connexions, and spent several years on the continent, principally in Italy. In 1822, he again took his seat, and proposed some measmes of retrenchment, which were carried. His novels—Matilda, and Yes and No-(republished Philadelphia, 1828) have been translated into French. They are spirited pictures of life and manners. death of his father (see Mulgrave), in 1831, lord Normanby took his seat in the house of peers, and, in June, seconded the address which was moved by the Catholic duke of Norfolk. He has since spoken and voted for lord J. Russell's reform bill.

NORMANDY; an ancient province in the north of France, bounded N. by the channol, F. by Picardy and Isle de France, S. by Maine, and W. by Brittany. It was divided into Upper and Lower Normandy Roven was the capital of the former, Caen of the latter. It is now divided into five departments (q. v.), containing a popula-tion of 2,000,000. It is one of the richest and most fertile parts of France. The Norman is distinguished for intelligence and shrowdness. It derived its name from the Normans, who took possession of it in 912, and became annexed to England, through the accession of William, duke of Normandy, to the English throne. (See Normans.) . Philip Augustus, wrested it from John, and united it to France, in 1203. It was afterwards several times invaded by the English, but finally recovered by the French, in 1450.

NORMANN EHRENPELS, Charles Fredin 1784 died at Missolonghi, while in the

Greece. Greek service, in 1822. (See Revolution of.)

NORMANS, or NORTHMEN; the inhabitants of the ancient Scandinavia, or Norway, Sweden and Denmark. This name was given to them in the Netherlands, in Germany and France; in England they were called Danes. They were fierce and warlike tribes, who made pratient expeditions to all parts of the European seas, plundering by land and by sea, and often overrunning large tracts of country, in which they practised every enormity. "They had scarcely any inducement," savs Mackintosh (Hist. of Eng.), "to spare countries which they visited only to plunder, and where they did not hope to dwell; they were less than others liable to retaliation, and they had neither kin-They were, dred, nor family, nor home. perhaps, the only barbarians who applied their highest title of magistracy to denote the leaders of piratical squadrons, whom they termed vikings, or sea kings. Not contented with their native and habitual ferocity, some of them (called Berserker) sought to surpass their companions by working themselves into horrible and temporary insanity." The poverty of their country compelled them to adopt this means of subsistence, and their religion inspired them with a love for during enterprises, since it taught them that warriors, fallen in battle, were admitted to the · ioys of Valhalla, the northern paradise. (See Northern Mythology.) They begun their piratical excursions in the first part of the ninth century, and soon covered the sea with their boats, and ravaged the cos as of England, Germany, Friesland, Flunders and France. Under the feeble reigns of Charles the Bald and Charles the Fat, they ascended the rivers to the very heart of France, and plundered Paris itself. It became necessary to purchase their retreat with gold. Their incursions into France were afterwards renowed, and Charles the Simple was obliged (912) to cede to them a part of Neustria (q. v.), which was afterwards called, from them, Normandy, and to give his daughter in marriage to Rollo, their chief. Rollo embraced the Christian religion, was haptized under the name of Robert, and became the first duke of Normandy, and a vassal of the king of range.

His followers received the religion of their ever, navigable for boats and ranges in leader, and abandoned their roving and various parts of its course. Length, about piratical habits. (See France, divisions 2,000 miles.

History, Language, and Literature.) Eng.

North; a department of France. (See land was, for about two centuries, deso. Department.)

land by the Danes, as they were there. North, Francis, baron Guildford, lord. mandy, and a vassal of the king of France. lated by the Danes, as they were there

called. Eghert (q. v.), in the beginning of the ninth century, had no sooner made some approaches towards a regular government, and the establishment of tranquillity, than the "Scanding you beathens," as the Saxons termed them, made their Alfred (871-901) finally atinearance. delivered the country from the invaders. after they had subdued the whole land, except the "isle of the nobles," into which : the king had retreated with a few nobles. But the relief was only temporary: they returned, under his successors, in greater force, obtained possession of the nurthern and eastern part of the country, and, in the beginning of the eleventh century, three Scandinavian princes (Canute, Harold and Hardicanute) ruled over all England for the space of about twenty-five years. (Sec. Great Britain.) The Saxon line was then . restored; but, in 1006, William, duke of Normandy, obtained the English throne. 3 (See William I, the Conqueror.) This conquest, as it is commonly called, had a most important influence on the Saxon manners, language and constitution, which had ? hitherto escaped with little change, and is therefore one of the most important epochs in English history.--Sec Thierry's valuable work, Histoire de la Conquele de l'Angleterre par les Normands, de ses Causes et de ses Suites jusqu'it nos Jours (Paris, 1825), and Halland's Middle Ages, ch. viñ. The Normans also established a new kingdom in Naples, in 1016. (See Sicilies, the Two.) According to the Russian historian Nestor, the Warangians, or Varangians, who founded a kingdom in Russia, under Ruric (1922), were Normans. The foreign expeditions of the Northmen gradually diminished their numbers and strength at home, and rendered them less formidable. See Depping's Histoire des Expeditions maritimes des Normands et de leurs Etablissements en France au 10me Siècle (Paris, 1826); Wheaton's History of the Northmen (1831).

Norte, Del, or Rio Bravo del Norte. n river of Mexico, which rises in the Rocky mountains, near the sources of the Arkansus, about lat. 41° N., runs S. S. E. and empties itself into the gulf of Mexico; lon. 96° 40' W.; lat. 26° N. It serves but little the purposes of navigation, owing to a the sand bars in the flat country, and the mountains in the upper part. It is, however, navigable for boats and rances in

keeper of the great seal under Charles II and James II, was born about 1640, and Dicome a student of St. John's college, Cumbridge, after which he entered at the Middle Temple, and was regularly called to the bar. He gradually made his way to the first dignities of his profession, rather by his prudence and dextenty than by extraordinary tulents. He was made so-licitor-general in 1671, when he received the honor of knighthood; in 1673, he was made attorney-general; the next year, chief-justice of the common-pleas; and, in 1683, lord keeper, when he was raised to the pectage. He died in 1685. Besides some papers in the Philosophical Transactions, lord Guildford was the author of a Philosophical Essay on Music, which contributed to the improvement of the art .- 2. Sir Dudley North, brother of the lord keeper, engaged in commercial pursuits, and became an eminent Turkey merchant. He was afterwards one of the lords of the treasury in the reign of Charles II. He wrote Observations on the Manners, Customs, and Jurisprudence of the Turks. He died in 1691 .- 3. Doctor John North, another brother, was born in 1645, and educated at Jesus college, Cambridge, where he obtained a fellowship. In 1672, he was chosen professor of Greek, and the following year he was created D. D. Doctor North was an admirer of Plate, a selection of whose dialogues, including Crito, Phedo, with the Apologia Sorratis, he published in Greek and Latin (1673, Svo.). His death took place in 1683. —4. Roger North, a younger brother of the same family, attorney-general under James 11, principally mergs notice as the historian of his family. His life of the lord keeper (lord Guildford, 1734, 4tq.) was reprinted in 1808 (2 vols., 8vo.); and his lives of sir Dudley and doctor John North (1744, 4to.) appeared in a new edition with the preceding (3 vols., 8vo., 1826).

Nouve, Frederic, carl of Guildford, an English statesman of the same family with the foregoing, was the eldest son of Francis, second earl of Guildford, and was born in 1732. He received his education at Eton school and Trinity college Oxford, after which he passed some at Leipsic. Returning to Eng-land to obtained a seat in the house of commons, and, in 1759, was appointed a portion of the coast to the east of 1000 commons, and, in 1759, was appointed a portion of the coast to the east of 1000 commons on the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and longitude, yet mexically and the coast to the east of 1000 commons of longitude, yet mexically and yet mex

forces. At length, in 1767, he became chancellor of the exchequer, and, in 1770, first lord of the treasury. His administration lasted till 1782, during a period of peculiar difficulty and danger. Having accepted of office at a time when the court party liad become unpopular, on account of the secret influence supposed to be possessed by lord Bute, something. of that unpopularity attached to the whole course of lord North's ministry. But this was greatly augmented by the contest with the North American colonies, which ended in the loss of that part of the British empire, after the expenditure of a vast deal of the national wealth, and the sacrifice of inultitudes of lives. For this disastrous measure of subjugating America, the premier appears to have been a sincere advocate; and, in defending his proceedings against the attacks of Mr. Fox and his party, in parliament, he evinced a degree of political skill and resolution which would have done honor to a beter cause. After his dismission from office, a league was formed between his lordship and the Whigs, which led to the famous coalition ministry; but this heterogeneous administration lasted only a few mouths, after which lord North-held no responsible station in the state. He succeeded to the carldom of Guildford in 1790, on the death of his father, and died in 1793. Lord North was much esteemed in private life, and was distinguished for urbanity of manners, and a turn for repartce. He was afflicted with blindness several years before his death, and his political antagonist, colonel Barre, was subject to the same misfortune. Replying to some observations of the colonel, in the house of commons, lord North said, "Notwithstanding" the hostility which the honorable gentleman opposite has shown towards me, yet I am certain that there are no two persons in the world who would be more happy to see each other."

NORTH AMERICA; that part of the continent of America which lies north of lat. 8° 40' N. The whole of the northern const has not yet been visited; but from 108° W. lon. to Beging's straits, the whole of which space has been explored, with the exception of 160 miles, the most northern point known is in 71° 23' 39"; spinale lead of that board, which rost he Exclusive, therefore, of Greenland and the help all 1765; and the next year he was other islands belonging to America, in the many joint receiver and payments of the Arctic ocean; and or the eastern and west5. 人名英格兰 ern coass, the main land of North America, son's hay, all have their sources in the extends from about 8° 46 to 72° N. lat., and from about 55° 30' to 168° W. lon. The greatest breadth is in about lat. 52°, where it is 74° of longitude, or 2500 geographical miles. The greatest length from north to south is probably in the meridian of 100°, and is about 2300 miles. We have already given an account of the aborigines, the principal civil and natural divisions, and of the progress of discovery, under the heads America, Americus, Columbus, Cabot, Louisiana, North Polar Expeditions. Sc., Merico, Central America, Indians, Indian, Languages, which it is annecessary to repeat here.—See Murray's North America (2 vols., 8 vo., 1829), and the Memoir of Sebastian Cabol (Philadelphia, 1831). Hudson's straits the coasts tend southeasterly to cape Charles (Labrador), without presenting any remarkable indentation. From that point, they run south-westerly, with numerous considerable gulfs, such as the gulf of St. Lawrence, the bay of Fundy, Massachusetts, Delaware and Chesapeako bays, and Pamlico sound, to the southern point of Florida; whence, winding round the gulf of Mexico, and passing the peninsula of Yucaian, they border on the Caribbeen sea. Crossing the isthmus of Darien, we find the western coast, lying on the Pacific, takes a general north-westerly direction, forms the gulf of Culifornia, and Nootka sound, and terminates at Beering's straits, which separate Asia and North America. A great inountainous chain covers the western part of North America with its numerous ridges. It consists of several ranges, running parallel with the coast, and extends, without interruption, south- . south-east, from the northern coast to the west of Mackenzie's river, in lat. 70°, to the isthmus of Darien, where it joins the Andes, The northern part bears the name of Rocky mountains (q. v.); the more southerly portion takes that of the Merican Cordilleras. The Alleghany mountains (q. v.), which run nearly parallel with the eastern course, are the only other considerable chain. The sources of the great rivers which rise in the central part "of the continent, and flow into the Arctic and Atlantic oceans and the gulf of Mexi-.co, do not appear to be separated by any -niountainous country. The Missouri and the Mackenzie, the St. Lawrence and the Mississippi, with the Saskashawan, which empties through lake Winnipeg into Hud-

article Americus. been introduced by the Europeans. Th

elevated region which lies to the cast of the Rocky mountains. The Columbia is the only great river of North America, on their western declivity. The region in which these great strengs rise is need cold and sterile, forming, for several limityed miles to the west of the Rocky mountains, a sandy, barren and uninhalutable desert; The great lakes of the interior ard counected with the ocean by large rivers: Slave lake communicates with the Arctic. ocean by Mackenzio's river, lake Winnipeg with Hudson's buy by the Nelson, and lakes Superior, Michigan, Huron, Brie and Ontario with the Atlantic, Hirough the St. Lawrence. Too little is known of the greater part of the continent west of. the meridian of 97° W., and worth of 35% and of the region north of the Canadas, to enable us to give a complete view of the. physical geography of North America. It. was formerly thought that North America. was less rich in precious metals than South America; but Humboldt has shown that c's the quantity produced in Mexico is superior to that of all the other Spanish posses-Gold is found in Mexico in alluvium, and in primitive mountains, and in the U. States. The Mexican silver mines are inexhaustible. Iton abounds in Russian America, Canada and the U. States. Thereare mines of copper; and that metal is found. native on the southern coust of lake Superi-! or, and in the northern parts of the continent, near the Copperatine river. The Labrador feldspar is celebrated. Anthracite. and bitundaous coal are abundant in " the U. States. Tin is produced in Mexico, and lead in great quantities in the U.
States. Salt is plenty in all parts of North
America: it is obtained on the surface of the ground, in springs or in mines. Sul-The immense forests different places. contain nines and firs of an extraordinary height, oaks of various species, walnut and chestnut trees, yew, ash, beeck; birch, cypress, elm, willow, poplar, alder, lime, and other trees common to the other continent, but often of different species. Among those which are peculiar to America are the magnolia, the tulip-tree, the acacia, and many shrubs which bear beentiful flowers; the sussafras, the red mulber. ry, the wax myrtle, &c. in the forests of the warmer regions are the palms; escao, nuhogany, cocoa and cotton trees Besides these native productions, the In this article, it is incorrectly stated that Carne and lemon trees, the coffice annul.

Americas visited the western continent in 1897.

A correct account of his voyagos is given in the life sugar-cane and the indigo plant have

banans, agave, pomo, cocius or cochuncat of heat in the same parallels of latitude. moose, deer, autolopes, &c. Among the ingrien, the otter, niusk-rat, squirrel, &ce. The porcuping is also found in North The musk-ox, the reindeer and the white bear are found only in the most northern regions. Carnivorous animals, such as the bear (the black bear and the grisly bear), the wolf, the congur (panther), lynx, &c., are numerous in the unfrequented parts of the country. All the domestic animals of Europe-the horse. ox, slicep, goat, ass, dog, hog and eat-have been introduced, into America, and some of them have increased to such a degree that they form large herds in a wild stare. Bees are numerous in the forests. North America harbors some dangerous reptiles. of which the rattlesnake is the most formidable. Mosquitoes are not less busy on the borders of the Arctic sea than on the shores of the Atlantic. The turkey is a shores of the Atlantic. mative of America, and was first introduced into Europe in 1525. The mocking-bird is celebrated for its miraculous power of song; the humming-bird for its beauty and diminutive size: the wild pigeous darken the air. There are numerous other birds peculiar to this contineat, and many, such as the eagle, owl; ness in coal, salt, the useful metals, and : erow, hawk, ewan, goose, duck, &c., which present specific differences from those of the same name in the eastern continent. The coasts and inland waters swarm with waterfowl. Alligators are Alligators are. found in the southern rivers; pikes, sturgeons trout, ecl and salmon till the waters. The great bank of Newloundland and the beighboring coasts abound in cod. walrus, &c., are found. ' (For the natural history of North America, the render, may consult Godman's Am. Nat. Little (Maradogy), and Richardson's Fundamental Community of the Community

odoriferous pod of the vanilla is anthered. The difference, however, is not so great in the forests. All the fruits ecrealia, and, as was formerly supposed. It has been useful plants of the old world, have been considered that there was a difference of naturalized and cultivated with success, temperature of several degrees; between and North America can now furnish Eu- places under the same parallel on the At-rope with apples and flour. Maize and fantic coast and the Mississippi Valley, tobacco are natived. The northern re- This supposition, founded on the fact, that gious are almost destitute of vegetation. certain vegetable productions were found-The vast prairies and savannas are peo- in more northern latitudes in the latter; pled with innuence herds of bisons, elks, than in the former, has been shown to be, erroneous by Humboldt. That distinother animals are the beaver, the ermine, the guished philosopher explains the phonomic enon by an examination of the form and direction of the valleys in these two re- ." gious. In the Atlantic region they are transverse, or run 'east' and west, and therefore the propagation of plants north-in wardly was obstructed, while the great Mississippi Valley opens to the south, and Atherefore presents no obstacles to the migration of vegetables towards the north. The temperature on the western shores of North America scens to be considerably higher, however, than in the regions east of the Rocky mountains, and to correspond very nearly with that of the Atlantic countries of the castern hemisphere. (Further details on this subject will be ? found under the heads Climate, Temperature, and Winds.)

The Geology of North America, or an . account of the different rocks which constitute the material of this continent, and, a description of the various modes of arrangement observed by them, is no less a subject of economical interest than of scientific curiosity, since to the existence of certain rock formations is due the fertility of a country in agriculture, and its rich- & other mineral productions necessary to .human support; and from a knowledge of their relations, many interesting conclusions are derived relating to its antiquity and those great revolutions which it experienced prior to all historical records. Commencing this sketch with the northern extremity of the continent, where the severity of an arctic climate will scarcely allow of a wretched existence even to the hardy Esquimanx and Greenlander, the rock strata are in many places incapaperiod during the year, while in others,

obstacles to geological research, however, much information, with regard to the formations of this remote region, has been collected through the voyages and travels of captains Franklin and Parry. prevailing character of these countries is primitive, with occasional tracts of transition and secondary. An extensive cond formation occupies the banks of the Mackenzie river, where the beds of lignic are subject to spontaneous combustion. Biniminous coal, also, which some geologists have conceived belonged only to temperate latitudes, is found at Melville island, and in Old Greenland, A larger section may next be considered, comprehending Labrador, the two Canadas, and an extensive tract upon the northern side of the almost unbroken chain of lakes running from lake Superior to the Great Slave lake. Labrador, with its succession of lotty and naked hills, many of which attain the elevation of several thousand feet, may be considered as belonging almost exclusively to the earlier formations; while the country upon the north of the St. Lawrence, though abounding in this class, also contains extensive transition and secondary deposits. The remainder of the present tract, from the outlet of lake Ontario to its distant western extremity, is remarkable for a continuous chain of primitive rocks, whose breadth, except in one place, where it was 240 miles, has not been determined. turning to view the geological features of another extensive portion of the American continent, our attention is arrested 'v the Rocky mountains, the most elevated land apon its surface, and which skirt its western coast from the isthmus of Panama to the Arctic ocean, and are, no doubt, a continuation of the Andes of the southern hemisphere. Although but partially explored, their primitive character is clearly established. Their eastern sides are covered, to the height of 200 or 300 feet, with a sand stone consisting of the rains of the granitic rocks upon which it reposes, whose disintegration was apparently offeeted by the gradual agency of an ancient in Greenland, the Rheinwald glacier, is said to be four miles long, by two in breadth, and from several hundred to one thousand fathons in -height, consisting of pure ice, precipitated from the neighboring mountains, and arranged in perpendicular columns, with a catern opening into its castern side of great extent. **Tracels and Voyages of Captains Parry, Ross, Franklin and Belgoni (London, 1926, p. 263).

**Captain Parry's Third Voyage (Phil., 1826,

p. 230). . † Captain Franklin's Second Expedition (Phil.,

p. 312).

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ocean once occupying the immenso plane or basin now extending eastward from the hase of these mountains to the great chain of the Alleghanies. This vast busin, which has for its boundaries the Rocky mountains, the primitive chain bordering upon the great lakes before alluded to, the Alleghany mountains, and the gulf of Mexico, and which includes 25 degrees of latitude and nearly double that number of degrees of longitude, is one great secondary former tion. It is free from my considerable inequalities, though obviously not level; since its surface is drained by the three great streams, the Mackenzie, the St. Lawrence and the Mississippi. It abounds in all those peculiar aggregates which belong to this formation, as well as in their ordinary accompaniments - coal, gypsum and salt, lead and iron. Along its easiern base, so far as it has been explored in the Missouri country, it contains the remarkable smaly desert, whose width is between 500 and 600 miles.] An equal degree of simplicity characterizes the structure of that portion of the North American contiment which still remains to be mentioned. The south-eastern boundary of the secondary basin just described, following the irregular base of the Alleghanies, from the Alalema river to fort Ann, near lake Chang lam, is the north-western hand of an exicu-ive tract of transition, which runs sult farther northward, pursuing the castern show of take Champlain, in a parrow bolt, to Canada. It voices in width from 20 to upwards of 100 miles, and its stratisection follows a north and couth, or a north-east and south-west direction, with an inclination from the horizon of less than 15. The mountains of this treet consist of long, parallel ridges, whose ourline is almost one unbroken line, and whose sides decline in gentle slopes. In Pennsylvania, it embraces an extensive and invaluable deposit of authracite coal, and one also in the state of Rhode Island, which, though considerably removed from the present district, nevertheless, belongs to the same class of rocks. Iron and lead are likewise innong the contents of this To the transition upon its formation. eastern side succeeds the great primitive Towards its country of the U. States. southern extremity, in the Carolinas and . Georgia, its width is above 150 miles; but as it advances northward through the Middle States, where the transition is ' widest, its breadth decreases: when it reaches the Highlands of New York, it begins to widen, and spreads over neart Long's Expedition to the Rocky Mountains.

ly the whole of New England, continuing into Canada and New Brunswick, probably to the mouth of the St. Lawrence. To this minutive mass, also, belongs all the mountainous country between lake Champlam, the river St. Lawrence, and lake Ontario, which is separated from the fargoing district by the narrow belt of transition occupying the castern side of lake Champlain. The strata of this formation can from a north and south to a roub eat and south-west direction, with a dap to the southward of more than 15?. Its greatest elevations are found in the White mountain range, where a few peals attain a height of more than 6000 iest. The surface presented through the primitive country is that of circular and smoothly swelling masses, with rounded tops. It abounds, throughout its whole extent, and especially in New England. where it has been more carefully explored, with all those simple minerals, existing in samilar formations in other countries. Its metalic deposits, which are mostly in the form of beds, are numerous and valuable; among which may be mentioned magnet ic and harmatetic iron ores, native gold, and copper pyrites. The eastern boundary of the painitive is a line commencing new Mabanaa river, and runnur, northward through Augusta, upon the Savannateriver, west of Camden, South Caroligri, and near Avershoro, North Carelina, by Richmond, Philadelphia and Trenton, and north of New York, pursuing the shores of the Atlantic. Within the primitive country thus defined, however, there exists, basides the transition tract of Rinde Island, a narrow strip of secondary, commencing at Northfield (Mass.), upon the Connecticut, and running through to the sea at New Haven, where it ends to recommence again upon the south side of the Hudson, from whence it pursues a south-westerly course to the Rappahanmork. It consists of the old red sandstorie, upon which repose, at several places, what are now regarded as the older volcanie rocks, amygdaloid and greenstone trap. The same formation also oc-· curs farther north, in Nova Scotia. To complete our present sketch of the U. States, we have only to notice what has, till latety, been denominated the lectiony formation of North America. It conimences to the north in a cluster of islands situated south of capd Cod, and, proceeding south, embraces flong Island, and, recommencing upon the continent in the northern part of New Jersey, covers the vast extent of country between the coast

and the Alleghanies, and is finally terminated in the Mexican sea. of the Roanoke, the tide penetrates completely across it to the primitive; but, farther south, it becomes more elevated. It consists of beds of sand, clay and marl, which contain lignite, the remains of marine animals, and vast quan-The distinction of this tities of shells. extensive district into two formationsthe upper secondary, or a formation contemporaneous with the super-medial order of Phillips and Convictions, and the tertiary was first established by professor Vanuxem and doctor Moren. The former of these consists of east, highly argillaceeus, and containing ges nish particles, analogous to those which he found in the green sand, or chalk, of Unrope, his prevalent color is a dark green, sometimes rendered brown by per side of iron. It abounds in the tollow or genera of shells, viz. terebratala, 92, phoraexogvia, anunonites, baculues are, oclemnites. It occupies a great part of die triungular pennisula of New Jersey, formed by the Atlantic, and the Oclay, re and Rardon rivers, and extends across the stare of Delaware from upor Belaware city to the Chesapeake; appear a again near Amapohs, in Maryland; at Cynch's creek, in South Caronna; at Cocksour island, in Georgia; and several wares in Alabama and Florida. It has a oo been noticed in numerous other localities. when the tertiary and alluvial ecverings have been removed by natural or artificial causes; and there are good counds for the opinion, their beds of foraiginous sand extend nearly the whole be only of the Atlantic frontier of the 1. States, south of Long island, though, or the most part, conscaled by the different members of the tertiary class. The tertiary embraces the islands of Apotucket. Martha's Vineyard, Long 1-land in part, Manhattan island, together with a fractional part of the adjacent coast of New York and New England, It likewise forms the Neversink falls, in New Jersey, the southern part of the peninsula of Maryland, from whence it pursues a southern direction, forming an almost continuous superficial mass over the country between the Alleghanies and the coast, to the Mexican sea. It is composed of lime stones, with mixtures of clay or sand, or both, in variable proportions; of clay alone; of clay with sand, forming loam; of beds of gravel, or of buhr-stone. It is marked by littoral shells, analogous to those of the tertiary deposits of the Paris and English

basins. The fossils of the tertiary are generally found within fifteen or twenty miles of the primitive, the intermediate space being filled with clays of various kinds. The highest point to which this formation rises, is about 250 feet. It is near the line of junction with the primitive on Savannah river. Over the surface of these formations is every where distributed alluvial gravel, containing large masses of granite and other primitive rocks; and in many places upon the coast it is covered with accumulations of alluvial Concerning the geology of the southern part of North America, we are sull exceedingly deficient in information, the attention of travellers and mineralogists having been so much absorbed with the richness and variety of the metallic deposits of Mexico, as almost wholly to have overlooked as geological features. We cannot, perhaps, better perform this part of our task, than by presenting the reader the recent observations of Mr. Machire, published in the twentieth volume of the American Journal of Science and Arts. "From the great range of the Andes spring all the subordinate mountains, forming large plains or valleys, either is ar their summit, or on the planes of their descent, on either side, on which planes, below the level of the principal range, when not covered by the volca, ie formations, the greatest part of the crimitave crosses out to day. the tops, both of the great range and the subordieure heights, appears to be placed the seat of the mines, principally in transition, though some are thought to be in primitive schist, or marble; from which it world appear that the summits of the mountains are principally transition. This supposition is countenanced by the small quantity of well-defined primitive found in the vicinity, and by its appearing at a lower level on both sides, which seems to indicate that the primitive is the formation of the whole range." Mr. Maclure adds a very ingenious theory to explain the origin of mineral veins. He remarked that the veinstones, in a majority of instances, were secondary, proving that the veing must have been filled from the surface; for it is difficult to conceive how, in a primitive range, like the Andes, the seeondary could be ejected from below. "It has been considered," he remarks, "as a geological fact, that metallic veins can have no dependence or connexion with volcanoes; yet our total ignorance of many

² Geology of the U. States, by William Machire (Phd., 1617). Journ. Acad. Nat. Sci. (Phd., vol. vi), and American Journal (vol. vii and xii).

original natural methods of operation ought to make us cautious in restricting nature to any exclusive mode of action. The princitive mountains in the north have iron in abundance, but the precious met als have as yet been rarely found; nor are there my modern volcanie rocks. The same may be observed in the north of Europe. Sweden and the north of Germany have rarely, silver and gold, and no modern volcanic rocks; and, on the southern continent of America, there seems to be a proportion Letween the gigantic volcanic formation and the abundance of the precious metals. If we suppose the convulsions and carthunakes that might precede the cruption of lava to the surface to have rent and cracked tho shell, so as to give space to the formation of these veins, and the precious metals, converted into vapor, to penetrate through clinks that would not permit lava to pass, this vapor, incetting with the secondary, that was filling the vein from the sinface, might form a mixture such as we find in mest of the ventstones." The foregoing sketch famislac, among others, the foilowing general facts and inferences: L. The North American resembles the European configent in the highly primaryo character of its northern extremities; while a differs from it in the superior degree of contounty possessed by its great formations, as well as in the absence leaving Mexico out of the question of volcanic action, except such as is afforded by the partial deposits of secondary trap rocks. 2. The great ocean from which were precipitated the secondary sandstones, gypsum and coal of the immense basin lying between the Affectionies and the Rocky mountains, appears to lave found its outlet by the St. Lawrence and Wasissippi rivers. 3. The upper secondary and terimy fermations formerly have probably been more extensive upon the Atlantic coast, and once connected the island, now forming its nathern boundary with each other and the main land. A. After the deposition of the secondary and tertiary formations, the laud has been broken up by the action of sudden and violent currents, which have strewed its surface every where with boulders or rolled masses, and given to the coast its present insular and peninsular form. 5. The strata embrace all those metalliferous and earthy compounds existing in them in other quarters of the globe, and exhibit throughout the same general relations elsewhere observed, and, consequently, must have resulted from the operation of those great laws, under the control of which the solid mass of the earth has been formed.

North Ameron; a post-town and shiretown of Hampshire county, Massachusetts, on the west bank of Connecticut river, 95 miles west of Boston; popularon in 1810, 2631; in 1820, 2551; in 1-30, 3613; lat. 42: 10' N.; lon. 72' 40' W. The compact part of the town is delightfully situated; the houses are genevally large, and in good style, and many of them are elegant. It is built chiefly on two streets, proceeding, like radii, from a cycle, though with many arregularities. The court-house, jail, and one of the meeting-houses, are very handsome buildmes. There is an insurance-office, a bank, and a printing-office, from which a weekly paper is issued. The common schools of Northampton are highly respectable. A private justitution in the town, called Round Hill school, intended, in a considerable degree, to imitate the German gymnasia, is highly respectable. A stream passes near the centre of the town, on which are erected numerous milks and meny manufactories. There are two considerable woollen manufactories. Farmington canal extends from New Haven to this town. A bridge, connecting this town and Hadley, built in 1826, is supported by six stone piers, and two abutinent . In the deepest water, the pers are 10 feet high. The bridge is 1080 feet long and The law term of the suprem: judicial court, for the counties of Hampshire, Hampden and Franklin, is held at Northampton. The Indians called this town Nonatuck. It was the tried fown settled on the river in this state, and was incorporated in 1051. In 1786, during the time of Shays's insurrection, a number of insurgents, supposed to be 1500, assembled here in arms, took possession of the court-house, and prevented the sating of the court of common pleas and the court of sessions. There are three secreties of Congregationalists, one of Baptists, and one of Ppiscopalians. Among the striking objects in the scenery of Northampton are the beautiful river, the rich meadows, and the beights called Mount Tom, and Mount Holyoke. Mount Tom is in Northumpton, two miles east of the court-house. tis elevation is 1200 feet; above the river. Mount Holyoke is in Hadiev, on the castern side of the river, and three miles from Northampton. From the top of it there is an extensive and beautiful prospect. Its height is 900 feet above the river.

NORTHERN CANAL, OF CHAMPLALS CA-NAL. (See Island Navigation.)

North Carolina. (See Carolina.) NORTH CAROLINA UNIVERSITY. Chapel Hill.)

NORTHCOTE, James; born in Plymouth, in 1746, where his father was a watchmaker, who designed him for his own business; but young Northcote, having a taste for the fine arts, and being flattered by praises bestowed on his early productions, pursued the practice of drawing and painting with so much assiduity, that doctor Mudge, a physician of that town, recommended him as a scholar to sir Joshua Reyrolds. He went to London in 1771, and became domesticated with that great artist. In 1776, he quitted bim, and commenced business on his own account, with the full concurrence of his preceptor, and was eminently successful, his portraits having procured him both wealth and reputation. He has written various papers in a work called the Artist. He has also published Memoirs of Sir Joshua Revnolds, comprising Anecdotes of his Contemporaries (1813), and a Supplement (in 1815); and Memoirs of Titan (1830).

NORTH-EASTERN PASSAGE. (See North

Polar Expeditions.)

NOTTHER & LEAST. (See Aurora Borenlis.)

Normarks Larenvelke. (See Scandinacian Liberature.)

Noncemen Myrnology. The interesting discoveries made by a more intimate acquaintance with the mythologies of the Past Indies and Egypt, and a comparison of them with that of Greece (discoveries which in the opinion of some scholars, prove the existence of a universal original religion - a pare desan, as some think -and, at all events, show the eternal thirst of man to explain the origin of nature, of houself, and, above all, of good and evil), justify us in assigning a separate place to the mythology of the North, which, even if its general trans were borrowed from Asia, must yet be considered as a distinct sys-The northern mythology, in the systematic condition in which we now possess it, is the work of scalds, that is, of the accient northern minstrels of Denmark, Norway, Sweden and Iceland. Religion and civilization here, as is often the case, sprang from poetry; and here, also, as is so common, cosmogony (q. v.) was the basis of the religion-a cosmogony which, at the same time, proves the wild imagination of its authors, and the nature of the country where it originated. The following are its most important features: There were originally no heavens above nor earth below; but only a bottomless

deep and a world of mist (Niftheim), in which flowed the fountain that strives to devour every thing (Hwergelmer). Twelve rivers, called Eliwagar, issue from this fountain. When they had flowed so far from their source that the liquid they contained had become hardened, they ceased flowing, and froze into ice, and, one layer accumulating over another, the great deep was filled up. Southwards from the world of mist was the world of light, or fire (Musspellheim, Mispelheim). From the former proceeded every thing dark and cold; from the latter, whatever is warm and light; a warm wind blowing from the latter upon the ice (the rays of the sun from Mispelheim encountered the ice from Niffheim) melted it. The drops became living by the power of him who had send the wind; and from them spring Ymir, the ice-giant. Under Ymr's left arm grew a little man and woman, and one of his legs begot a son from the other. From them proceeded the ice-giants, From the mixture of ice and heat orginated, also, the cow Audienbla, from whose dugs can four streams of malk, by which Ymir was fed. The cow supported herself by licking the salt stones of the ice. As she was thus one day licking the stones, to, in the evening, human hair grew out of them; on the next day appeared a head; and, on the third, an enfire man, called Bure. His son was Bor, who married Balsta, daughter of the giant Mountain-Gate. By her he had three sons, Odin, Wile and Ve, who became the rulers of heaven and earth. The children d Bar were good, those of Ymir wicked; and day were constantly at war with each other. The sons of Bor finally slew the ice-giant, dragged his body into the deep, and from it created the world. Out of his blood they made the sea and rivers; of his flesh, earth; of his bair, grass; of his bones, rocks; and stones of his teeth and broken jaws; of his head they made the heavens, which they extended over the earth by its four ends, at each of which they placed a dwarf, Austre, Westre, Sudre, Nordre. Of the sparks and light which had proceeded from Musspellheim they made stars, and fastened them to the heavers, to give light to the earth. They threw Ymir's brain into the air, and it formed the clouds. As Bor's sons were once walking on the sea-shore, they found two blocks, of which they created a man, called Askur (ash), and a woman, Embla (alder). One gave them life and soid; the second, motion and reason; the third, the face, language, hearing and sight. This

cosmogony is plainly a northern view of nature; we here see nature passing from the death of winter into life, and the beginning of the world connected with the appearance of spring. It was natural that, to the early Scandinggrans, ice should have appeared as the primeval matter, and that it should be represented as exil, because a destroys the life of patine. The whole cosmogony is therefore a physical allegory, not inferior to those of other mythologies. The creation of day and night, a the sun and moon, is thus related: The giant Darkness (Allingi, Ning) had a daughter of the name of Nott (Nott). dark and sombre like her race. She was thrice married, and bore to Nagehier, Air. Ether) a son, Andm (Motter); to Anar (the forming principle) Jord (the Laub); to Dellingar (Twilight) Dagur (Day), who was light, like his paternal race. Alfahir now took Nott and Dagur (Night and Day) to the heavens, and gave them each a horse and car, to drive round the carth Night tode first on her horse, Humfaxi (Blackmane), which every morn ing bedews the earth with the town from his month. The horse of Dagm, Skinfayr (Shinnermone), illumines, with his mane, the air and earth. Mundiffai (Mover of the Axis) had two beautiful children, Scot . and Moon (Sun and Moon). Proud of the beauty of his daughter, he married her to Glemar, the god of joy. The gods, offended at his presumption, took away his children, and transported them to the heavens. Sool was employed in driving the horses of the car of the sun, and Maan those of the car of the moon, and to wate'r over her mercase and decrease. So far the most ancient mythology, which creates giants (john) from the elements of nature. It is remarkable that, in this mythology, the giants dwelling around that original cleans produce the lords of the heavens, the earth and lower regions; and giants, Titans and Cyclops are also the ancestors of the Greeian gods; and, in the Greeian as in the northern mythology, a new race of gods drives out the ancient: or, in other words, historical traditions were confounded with the original ideas of nature. The ancient and modern systa" tems seem to have their connecting point in Odin, as with Jupiter in the Greek system. We must doubtless distinguish an earlier and a later Odio. The former. was the symbol and deity of light and the sun, and there are several interesting Yables relating to him; as, for instance, of his marriage with the earth; his daily amour with the goddess of the waters, to whom

he descends every night, to drink of her clement from the golden cup; of the marriage of his rays with the vapors of mother Earth, of which the fruit is the god of thunder, &c. All these fictions, however, were transferred to the younger Odin, the chief of the council of the Aser. Aser (Asiatics) are the new race of gods, which came in with the younger Odin, or descended from him. It appears, from northern chonicles, that, in the first centuries of the vulgar era, if not still earlier, Sigge, the chief of the Aser, an Asiatic tribe, emigrated from the Caspian sea and the Caucasus (probably driven out by the Romans) into Northern Europe. He directed his course north-westerly from the Black sea to Russia, over which, according to the tradition, he placed one of his sons as a ruler, as he is also said to have done over the Saxons and Franks. then advanced through Cimbria to Denmark, which acknowledged his fifth son, Skiöld, as its sovereign, and passed over to Sweden, where Gylf, who did homage to the wonderful stranger and his gods. then ruled. He soon made himself absolute master there, built Sigtuma as the capital of his great empire, and established a new code of laws and a new religion. He himself assumed the name Odin, established the priesthood of the twelve Drottars, who conducted the secret worship, and the administration of justice, and, as prophets, unveiled the future. He is also the god of song and war. (Gibbon and Munter consider Odin a Shaman, and his doctrine Lanaism.) He was the inventor of the Runic alphabet, and made him elf dreaded as an enchanter. But the Ascr, dreaded as an enchanter. But the Aser, that is, these new gods of the scalds, are as follows: Odin, the god of gods, the first and oldest of all, who lives forever: he sits upon the elevated throne Lidskjalt, whence he observes every thing in the universe, alone, contemplating his own being. By his side stands the spear, . Gaugner. He has 12 chief names, and 114 others, in the ancient Asgard. His swift steed is called Steipner. From him and his wife Friggi are descended the gods, on which account he is called Alfadur (Father of Ally or, according to some, more correctly, Walfader (Father of All who fall in battle—a title which belongs to him as the ruler of Valhalla). Frigge, wife of the king of gods, shares with him the wonderful throne, from which all countries are seen. She knows the fate of all mortals, but keeps it secret. Their sons are Thor, god of thunder-a symbol of physical strength, the strongest of gods

and mortals, whose mighty step sounds like the storm, whose hammer, Miölner (the Crusher), crushes the hardest objects and Balder, the youthful and beautiful god of eloquence and just decision, the innocent who appears brilliant as the lily, and in honor of whom the whitest flower received the name Baldrian. His wife, Nanna, daughter of Gewar, looks with modest admiration on the mind of her husband. She bears Forfete, the god of . concord, who resembles the rainbow, when it descends from the dark cloud. He puts an end to all strife. His palace, Glitner, rests on pillars of gold. Niord, who shakes his vans in the roaring storm, so that every thing trembles, is the god of winds, of sailors, of commerce and of riches. By his wife, Scada, a daughter of the mountain-giant Thiasse, he had the beautiful, beneficent and mighty Frei and Freia. Frei, who floats in the shining garments of spring, is the ruler of the sun, and upon him depend rain and sunshine, plenty or dearth. He rules in Alfheim. where the clis dwell. Instead of a horse, he rides a boar with golden bristles. Gerda, Gymer's daughter, is his wife. Freia, Fraa, is the goddess of love. Her eye is an eternal spring; her neck and cheek The mildest and most bountiful of light. the gods, she is a friend of sweet song. and loves to hear the prayers of mortals. She mourns her lost husband, Odur, to whom she had borne two daughters, Nossa, the model of all beauty and grace, and Gersomi. Tyr, a son of Odin, the fearless god, who wounds by a look, is lofty as a tir, and brancashes the lightnings of battle. All brave warriors are under his protection, though he is not properly the god of war, but rather of power and valor, and no friend of peaceful agreement. Of a different character is his brother Braga. the god of wisdom and poetry, which, from him, is called Bragur. He appears: with a golden telya, and strikes the cords, which emit a sweet sound. His wife is Iduna, who preserves the apples of immortality, which she offers in vessels of gold to the heroes at their entrance into Valhalla—those apples which alone preserve the eternal youth of the gods. Other sons of Odin are Hermode, the messenger of the gods, armed with a helmet and mail; Vidar, strong as Thor, the god of silence; and Wale, the god of the bow.'
Uller, son of Thor the Thunderer, is of a beautiful figure, master of archery and skating, who was invoked by those who engaged in single combat. A silver circle surrounds the down of his chin. His empire is Ydalir (that is, Rain-valleys). The following gods are of a most mysterious character: Hoder, the blind god, murderer of Balder, whose violent deed the gods never forget, but whose name they must never hear pronounced; Heimdal (Him-. indal), a son of nine gigantic sisters, born on the margin of the earth, a great, mysterious god, guards the Bifrost, the bridge to heaven (rainbow), against the giants. He sees as plainly by night as by day; his car hears the grass grow in the field, and the wool on the lambs. He is represented with a pensive brow, his eye fixed upon his calm breast. Among the goddesses, we must mention Laga, the first next to Frigga; Syra, the physician of the gods; Gesione, goddess of chastity, who, herself a virgin, protects all chaste virgins, and, if they die unmarried, takes them to her heavenly dwellings; Jylla, a virgin like Gesione, with beautiful locks, and a diadem of gold, is intrusted with the secrets of Frigga, whose messenger, Gna, floats about with the rays of the sun; Illyn (Lyna) the Gentle, who kisses away the tear from the eye of the unfortunate, the goddess of friendship and good thith, who is united with several servants of the goddess of love; Siona, who awakens the first sweet feelings in the breasts of youths and maids, and disposes them to mutual love; Löbna (Löffna), endowed with the power to reconcile divided lovers; Wara, the gotdess of marriage, who hears the secret vows and oaths of lovers, punishes the faithless, and unites the true; Snotra, the goddess of modesty, is the protectress of y tuous youths and maids; Wora, the all-knowing, penetrates every secret of the heart; Synia, the guard of heaven, is the goddess of justice and law, and exposes perjury. A large ash (or an ash forest), called Ygdrasil, the tree of the world, stands over the well of time: its branches extend over the world, its top reaches above the heaven. It has three roots, one among the gods, another among the giants, and a third under Hela. Near the middle root is the fountain of wisdom, the fountain of Mimers. Near the heavenly root is the sacred fountain by which the gods hold their council and make known their decisions. From these fountains rise three beautiful maids, the Nornas, whose names are Urd (the Past), Varunde (the Present), and Skuld (the Future). They determine the fate of mortals, and sid or punish them by their ministers. On the top of the ash sits an engle, looking far around; a squirrel (Rotatoskr) runs up and down the tree; four stags (Dain, Dy-

nair, Dualin and Dyrathor, roam through its branches, and cat the bark; a scrpent gnaws its root below; the trunk of the tree rots; but the holy maids water it from the sacred fountain, that it may not with-From the leaves of the ash falls a sweet dew, the food of bees. Over the fountain sing two swans. Here are heard Heimdal's song of the fate of the tree of the world; the voices of the past, the present and the future, in the council of the gods. The gods themselves seek to learn the wisdom of the Nornas, the stern goddesses who rule over all. On this account, they were much honored; temples were built: in their honor, in which their oracles were consulted. The Valkyrias, or Disas, are awful and beautiful beings, neither daughters of heaven nor of hell; neither begot by gods, nor cradled in the lap of immortal mothers. Nothing is said of their origin. Their name signifies the "choosers of the slain" (from wal, a heap of killed, and kyria, to choose). They appear awin and horrid in the songs of the scalds; yet we find them to be the beautiful maids of Odin, with helmet and mail, and mounted on swift horses. Heroes long for their arrival, channoniced of their charms. They conducted the heroes to Valhalla. The residence of the gods is Asgard, a fortress of heaven, whence the bridge Bitrost leads to the earth. Asgard contained the palaces of the gods. There was Valuskialf. the silver palace of Odin, with all the above-mentioned divinities. In the centre of Asgard, in the valley of Ida, was the place of meeting, where the gods administered justice. This place was the most highly ornamented of all. Here was Gladheim, the hall of joy, Wingolf, the palace of friendship and love, and Glasor, the forest of golden Valhalla was a separate palace, trees. with groves and beautiful environs: in it was the dwelling of heroes who had fallen in battle. Here life is passed in bloody war and riotous revelry. But all wounds here received in battle are healed as soon as the trumpet sounds for the feast; and then the heroes quaff the oil of Enherium, and the beautiful Valkyrias till their cups. The number of heroes is immense, and will increase indefinitely; yet the gods will wish that it were still greater when the wolf Febris comes. This leads us to throw a glance at the wicked Loke. Loke, the son of the giant Farbaute and of Laufeyd, is, if not a god, yet a superhuman being, leautiful of body, but malignant of spirit. By the giantess Angerbode (Messenger of Evil) he had Ilela, the goddess of the lower regions, half blue and half .

flosh-color, and with a terrible figure, the Wolf Fenris, and the terrible serpent of Midgard, Jornungandur, which surrounds the whole earth. Hela rules in Niflheim! . Her half is called Elidnir (Grief); her bed Kor (Disease); her table Hungr (Hunger); her servants are Ganglati and Ganghol (Lethargy and Delay). All who died of sickness and old age descended to her dark mansion. Thus Nitheim and Asgard are opposed to each other as existence and non-existence, and the scalds imagined that destruction would finally be victorious over every thing that is: hence their idea of the end of the world. Three terrible winters, and again three more, will succeed each other: snow will rush in from all sides: the cold will be severe, the storms violent, the sun covered, and bloody wars will distract the whole world. This is the sign that the destruction of the world, and the great "twilight of the geds" (thus the end of the world is called) is nigh. The wolf Ferris-a monster which, when it opens its jaws, touches the skies with the upper, and, with the lower, the primeval abyss-devours the world, while the inhabitants of Musspellheim, under the command of Surtur, make an attack upon Asgard. Heaven is stormed by these giants, and heaven's bridge falls when they ride over it. For this reason, Heimdall is placed there as a watch, and the gods look with pleasure upon the numerous combatants of Valhal-But all precaution is vain: the gods must perish, even the all-powerful Odin and the mighty Thor. A new sun will then illumine the earth, and Lift and Liftrasor—a human pair saved from the destruction, and nourished on morning dew -will renew the human race. There will be new dwellings for the just and unjust, for reward and punishment-Gimle (a solondid residence towards the southern end of heaven) and Nastrand. Widar (the Conqueror) and Wale (the Powerful) will live in the dwellings of the gods, after the tlame of Surtur is quenched. (Mental Power) and Magne (Strength) will receive the crushing hammer, after Thor, exhausted by the struggle, has perished, and Widar tears the jaws of the wolf asunder.—These mythuses have been preserved in the Edda and the Sagas (we Müller's Sagabibliothek des Skandinarischen Alterthums; Berlin, 1816), by Procopius of 'Casarea, Jornandes, Paulus Diaconus (son of Warnefried), Ermoldus, Nigellus, Adain of Bremen, Saxo Grammaticus. Schlözer,, Adelung, Delius, Mullet, Nycrup, Grater and Rühs, enter-

tain very different, sometimes contradictory, opinions respecting their historical value. (See Edda.) The subject cannot, however, be considered as completely ex-Another question has been amined. started, whether this northern mythology was also Germanic. At all events, those Scandinavians are connected by origin with the Germanic tribes, and, as Germanic tribes passed the Rhine, so other tribes pressed in from the North and East, and Goths and Saxons brought this mythology to Germany.—See Nyerup's Dictionary of Scandinarum Mythology (Copenhagen, 1816, in German); Kattenfeld's Dissertations on the Doctrine of the Asas. and its Application (in the Isis of 1819, in German); Mone's History of Paganism in Northern Europe (in German); bishop Munter's Ecclesiastical History of Denmark and Norway (the first book of vol. i treats of the Scandinavian paganism of Odin; Leipsic, 1823, in German); and Vulpius's Dictionary of the Mythology of the German and the kindred Tribes, and the Northern Nations (in German); see, also, vol. i of Geijer's History of Stoeden (in Swedish and in German, Salzburg, 1826), and Edda Samunder hins Froda (part iii, Copenhagen, 1828), containing the Voluspa, Kávamal and Rigsmal, with a Dictionary of the Ancient Northern Mythology, by professor Magnüssen.

NORTHERN WAR, from 1700 to 1721. The northern war (so called), in the north and east of Europe, was contemporary with the Spanish war of succession in the west. The king of Poland, Augustus 11, elector of Annony, the ezar Peter of Russia, and the king of Denmark, secretly united against the king of Sweden. Charles XII (q. v.), 1698, then only sixteen years old, to regain the provinces ceded to Sweden by the treaties of Copenhagen, 1660, of Oliva (q. v.), 1660, of Kardis, 1661. A Danish army therefore invaded the states of the duke of Holstein-Gottorp, the brother-in-law of Charles XII, to enforce Denmark's claim to the sovereignty of Sleswie, and a Saxon army invaded Li-But Charles XII, who had gained vonia. the naval powers (England and Holland) to assist his cause, by a treaty concluded at the Hague (1700), landed in Zealand, and the allied Swedish, Dutch and British fleets bombarded Copenhagen. This compelled the king of Denmark, Frederic IV, to separate from the league, at the peace of Traventhal (August 18, 1700), and to acknowledge the sovereignty of the house of Gottorp over Sleswic. Charles now advanced against the Russian

army, which besieged Narva, in Estho- the Russian army of 60,000 men, which pia, and completely defeated it, Nov. 30, 1700. Upon this he compelled the Saxons to evacuate Livonia in 1701, and proceeded towards Warsaw, when the party of Sapielia, in Poland, declared themselves against king Augustus. He defeated the Polish-Saxon army at Clissow (July 20. 1702), then the Saxons at Pultusk (May 1, 1703), and effected the dethrouement of king Augustus at the diet of Warsaw (Feb. 14, 1704), as also the election of the palatine of Posen, Stanislaus Leczinski (July 12), to the throne of Poland. Lastly, he obliged king Augustus, after the defeat of the Saxon general Schulenburg, at Punitz (Nov. 9, 1704), and at Frans-tadt (Feb. 13, 1706), by his march into Saxony, to sign the peace of Altranstadt (q. v.), Sept. 24, 1706. In the mean time the Russians, commanded by general Scheremetell, had defeated the Swedish general Schlippenbach, in Livonia (Jan. . 11, 1702); they had captured Marien-burg, and taken Nöteburg, on the Neva (October 22), which the czar then called Schlüsselburg. May 27, 1703, Peter laid the foundation of St. Petersburg, on the island Lusteiland, in the Neva. In 1704, he took Dorpat and Narva; in 1706 and 1707, he gained such power in Poland, that he began to take measures for the election of a new king; and the confederacy of Sandomir allied itself to him in 1707, although the republic had made a treaty in 1705 with Sweden. But Charles XII returned to Poland from Saxony with a formidable army of 43,000 men (Sept. 20). He soon made himself master of the principal towns, crossed the Berezina, July 10, 1708, and beat the Russians under Scheremetetf, before Golowtschu, July 14. From Mobilew he proceeded to the Ukraine, September 15, at the invitation of the Cossack hetman Mazeppa, (q. v.) In the mean time his general Lowenhaupt, who was to join him with fresh troops, and supplies of provisions and ammunition, was entirely defeated by Peter at Liegna (October 9). Monschikoff devastated the Ekraine in November, and Charles was obliged to take up winter quarters there, where he lost 4000 men by hunger and cold. Mazeppa succeeded in making a treaty for Charles XII with the Zaporo, gian Cossacks (March 28, 1709); but this very event induced the king, instead of restoring his connexion with Poland on the Dnieper, to lay siege to Pultawa (q. v.) (April 4). Here his army, which consisted of 12,000 Swedes and 13,000 Cossacks and Walachians, was entirely routed by

was under the command of Scheremeteff Menschikoff and Bader, Poter himself acting as a colonel June 27 (July 8), 1709. Charles retreated over the Drieper; his general Lowenhaupt was taken prisoner, with 16,000 men (July 11), at Perevolotschua. During five years Charles en-deavored to excite the Porte against the czar. (See Pruth.) The king of Denmark, on the other hand, renewed his alliance with Augustus II at Dresden, June 28, 1709. The latter declared (August 8) the peace of Altranstadt invalid, and, advanced towards Poland with 13,000 men, where he was again received as king, and renewed his alliance with the czar, at Thorn (Oct. 8), renouncing all the claims of the republic of Poland on Livenia, in favor of Russia. Oct. 22, 1709, the ezar also concluded an alliance offensive and defensive with Denmark, at Copenhagen. A Danish army (Nov. 12) invaded Schonen, but was completely defeated by general Steenbock (March 10, 1710) at Helsingborg, and compelled to retreat to the ships. An army composed of the united Saxon, Polish and Russian forces, however, invaded Swedish Pomerania (August, 1711), and a Danish army conquered (in the period from July to Sept. 1712) the Swedish duchies Bremen and Verden. The Swedish general Steenbock, indeed, after having beaten the king of Denmark, and the Saxons under the field-marshal Flemming, at Gadebusch, in Mecklenburg, December 20, advanced to Holstein, and Jan. 9, 1713, reduced Altona to ashes; yet he was forced, by the united Russian, Danish and Saxon forces, in which the czar was present, to withdraw to the Gottorp fortress Tönningen (Feb. 14), where he was compelled by famino to capitulate (May 16), with 11,000 men. The duke of Gottorp now lost his possessions, and the Russians took Stettin, which was put provisionally in the bands of the neutral king of Prossia, Sept. 30, 1713. At the same time, Peter had occupied Riga (1710), Finland, and Aland. Charles art rived at Stralsund Nov. 22, 1714, where he immediately demanded of Prussia the evacuation of Stettin, and declared war when this demand was not complied with. The consequence was, that 20,000 Prussians, under prince Leopold of Anhalt-Dessau, joined the Danish-Saxon army, which was besieging Stralsund, (The Saxons were commanded by the field-marshal count Arnim, and by count Wackerbarth.) Charles XII, being thus reduced to extremities, sued for peace through the ambassador of Louis XIV.

with whom he had made a defensive treaty at Versailles, April 3, 1715; but the allies would not consent to his proposals. He escaped in a Swedish vessel in the night of December 21, upon which Stralsund capitulated (Dec. 23, 1715). Wismar, also, the last possession of Sweden in the German territory, submitted to the Danes (April 19, 1716). Denmark had, by the treaty of June 26, 1715, sold the duchies of Bremen and Verden to the elector of Hanover, who now declared war against Sweden. The czar had also allied himself with Great Britain against Sweden (at Greifswald, Oct. 28, 1715), and with Prussia (Oct. 30). But jealousy soon separated the allies. The ezar would not consent to Denmark's aggrandizement; England would not favor the increasing power of Russia. The Poles also confederated to effect the expulsion of the Saxon troops from their country. The diet of Warsaw at length resolved that the king should not retain more than 1200 Saxons in Poland for his body-guard, and that he should never, without consulting the diet, declare an offensive war. This obliged Augustus II to take no further part in the northern war, which was carried on, during 1716, in Schonen and Norway; but the czar did not assist the Danes. Sweden was, however, deprived of her oldest ally, France, which secretly joined Prussia in 1716. Baron Görtz (q. v.) endeavored, in 1718, to ally Russia to Sweden, by ceding the provinces on the Baltic, so that the Russian forces, combined with those of Sweden, might regain the German provinces, subject Norway, and execute Alberoni's (q. v.) plan of restoring the house of Stuart to the throne of Eng-But on the death of Charles XII (Dec. 11, 1718), the queen of Sweden, Ulrica Eleonora, influenced by the party of Horn, defeated the project. She, however, concluded, under the mediation of \$ France, (a.) the peace of Stockholm, 1. with the elector of Hanover, Nov. 20, 1719; Hanover retained Bremen and Vgrden, making a pecuniary compensation to Swedge; 2. with Prussia, Feb. 1, 1720; Prussia for two millions of dollars (thater), relative possession of Stettin, and Hither Portion, as far as the Peene! (b.) the period of Fredericsborg with Denmark, 4, 1720; Denmark kept half of the layer Sloggie which the bouse of Got-Bhy of Sleswic, which the house of Gotp lost, and ceded all which it had connered (Wismar, Rügen, Stralsund, &c.); Sweden gave up her immunity from duties in the Sound and the Belts, and paid to Denmark 600,000 dollars (thaler): (c.)

with Poland a secret armistice at Stockholm (Jan. 7, 1720), which was declared a peace in 1729, and sauctioned by the estates on both sides; Augustus II was acknowledged king of Poland, but paid one million dollars (thaler) to Stanislaus Leczinski. The czar, in the mean time, continued the war: a Swedish squadron was defeated by the Russians (August 7. 1720); the coast of West Bothuia, and, in 1721, that of Norrland, was barbarously devastated. (The Russians burnt 4 towns, 509 villages, and 379 farms). Stockholm, however, was protected by a British fleet against the Russians. At last, the mediation of France effected a peace, which was concluded at Nystadt, in Finland, Sept. 10, Sweden ceded to Russia Livo-1721. nia (for which the czar gave two million dollars, thater), Esthonia, Ingria and Carelia, part of Wiborg, besides all the islands on this coast, particularly Œsel, Dagoe and Moen. For this the czar restored Finland, and promised not to interfere in the domestic affairs of Sweden. Thus Russia became the first power of the North, and Sweden lost this rank, which it had retained from 1648 to 1709. NORTH GEORGIAN ISLANDS. (See North

Polar Expeditions. NORTHMEN. (See Normans.)

NORTH POINT, BATTLE OF. (See Ballimore.)

NORTH POLAR EXPEDITIONS. daring and hardy mariners of England have, within the last 350 years, penetrated into the remote Arctic regions. Cabot, according to his recent biographer, penctrated into Hudson's bay in 1496. Frobisher (q. v.), in 1577, sailed into one of the many entrances of Hudson's bay. Davis (q. v.) discovered, in 1587, the entrance (Davis's strait) into the great bay between the western coast of Greenland and the clistern coast of North America; Hudson (q. v.) discovered and examined, in 1610, the straits and bay called after him; Baffin (q. v.) examined, in 1616, the castern parts of the great channel, called from him Baffin's bay, in which Davis's strait terminates. On the western side he discovered (74° 30' N. lat.) an entrance, which he called Lancaster sound, but was prevented from examining it; Jones, Middleton, in 1742, and others, explored the western, southern and northern borders of Hudson's bay. It was expected to find a passage here towards the west, and a prize offered by parliament for the discovery of such a passage, led to the voyage of Ellis, in 1746. At a later period (1771), Hearne (q. v.) reached the Northern

ocean by land, from the north-western settlement of the Hudson's bay company; and Mackenzie (q, v.), in 1780, from that of the North-west company. They discover-. ed (690-710 lat.) the Frozen ocean, and two rivers which emptied into it. Hearne discovered the mouth of the Coppermine river, and Mackenzie that of the river called by his name, and Whale island. Barrington endeavored to prove, in his Possibility of approaching the North Pole asserted (new edit, with an appendix by colonel Beaufoy, London, 1818), that in certain seasons the Arctic seas were sufficiently free from ice to allow an approach to the poles. The English government, therefore, in 1773, sent captain Phipps, afterwards lord Mulgrave (q. v.), with two vessels, to Spitzbergen; but in 80° 48' the ice prevented them from 'proceeding any farther. Cook also was stopped in his progress by the ice (1778), at Icy cape (lat, 70° 44'), which he reached from Beering's straits. These and other attempts of the English, Dutch and Russians seem to show sufficiently that a north-east passage from the Atlantic into the Pacific ocean, or a navigable way round the north coast of Asia into Beering's strait, is not practicable.* 'The polists, as they were called, as Barrow (in his Chronological History of Voyages into the Polar Regions, London, 1818), and others, were of opinion that the north-west passage, from Batfin's bay along the north coast of America, where the Mackenzie and Coppermine rivers fall into the Frozen ocean, and round ley cape into Beering's straits, hich is shorter than the former, or even the polar passage, the shortest of all, would not be entirely shut up by ice. They asserted that an error had hitherto been committed in sailing always too near the shore, which was surrounded by enormous masses of ice; and that the middle of the Polar sea, which was more than 2000 miles in diameter, and, between Greenland and Spitzbergen, was of an unfathomable depth, and in constant motion, could not be frozen up, and would therefore afford a navigable passage. They argued from the following facts: The Polar sea is open on the northern coasts of Spitzbergen; the Russians wintered in Spitzbergen, under 80° lat., where the deer propagate. Neither of these facts are true of Nova Zem-

* It is, however, said that the Cossack Simon Deschueff sailed, in 1648, out of the Frozen sea to Anadyr through a strait (Beering's straits), and the Kussian historiographer Mueller' assures us that he saw the account in 1736, in the archives of Yakutak. This yoyage, however, is doubtful.

bla (75° lat.); from which they conclude that in Spitzbergen the weather must be milder than in Nova Zembla, Moreover, the cold on the eastern coast is more severe than on the western. For about five years (the period of the deviation of the needle towards the west), immense masses of ice had broken away round Greenland; . perhaps in consequence of their increasing weight, and of earthquakes, or of several successive mild winters; hence the icebergs (q. v.), which, from 1815, were so numerous, down to 10° lat. Several whalers had also stated, that the eastern coast of Greenland, hitherto surrounded, had recently become visible again. Finally, the currents, which set from the north through Davis's and Beering's straits towards the south, by which a constant circulation and change of the waters is kept up between the Northern Pacific and the Atlantic oceans; the great quantity of drift wood, which is brought down from the high northern latitudes along the coasts of Iceland and Greenland; and instances of whales, which, as was shown by the harpoons found in them, had been struck off Spitzbergen, being taken to the south of Beering's strait; and of others wounded in the fatter region being taken off Greenland and In Davis's strait, -- render a passage through Baffin's bay probable. According to historical accounts, the Polar sea on the castern coast of Old Greenland, had been unapproachable for four centuries. The Danish colony, established in 983 by Eric the Red, prospered; but the coast itself became so blocked up by ico (from 1406), that the communication between Europe and that colony, probably long since destroyed, had never been restored. Since that period, also, the soil of Iceland, once covered with wood, had lost its former power of vegetation. To this was added that the aurora borealis, the changes of which were said to depend upon the freezing, thawing and collision of polar ice, first appeared about a century after the settling of the ice along the coast of Greenland, but has been less often seen since the diminution of the polar ice. On: these observations was founded the opinion that the polar ice would naturally disappear, as it had accumulated, in the course of time, and also the conjecture that Greenland, the eastern coast of which was known as far as 805 lat., and the western coast hitherto only to 77° 30', is an island, and that Baffin's bay opens into the Frozen ocean. On the other hand, it was supposed that America is not connected with New Siberia and Northern;

Asia beyond the ley cape. These con- They cat meat raw or cooked. They apsiderations led the English government, and at a later period the Russian, to undertake polar expeditions, which were destined, not only to attempt the discovery of a north-west passage, but also, in general, to examine the morthern coasts of Asia and America, and determine whethor there is a large extent of land around the north pole, which is connected towards the west with America, and towards the east with New Siberia, or with the great continent, which Sannikoff declared he had seen north of New Siberia; or whether, as many believe, North America be entirely separated from the polar countries. Parliament offered a premium of £20,000 sterling to the first navigator who should accomplish the north-west passage, and £5000 sterling to the first vessel which should reach the north pole and pass it. In 1819, the prince regent offered prizes of from £5000 to £15,000 to those vessels which should advance to certain points in the Arctic seas. The British govpermuent, therefore, fitted out two expeditions in the summer of 1818, to the north Property Captain Buchan, commanding the Trent and the Dorothy, was instructed to attempt a passage between Spitzbergen and Nova Zembla, over the pole, into the Pacific, and captain Ross, communding the Isabellaand the Alexander, to attempt the north-western passage from Davis's straits and Bashin's bay into the Frozen ocean, and thence into the Pacific. The commanders and crew were carefully selected, and provided with every thing Captain Buchan, however necessary. (July 29, 1818), reached only 80° 32', north of Spitzbergen, where he remained three weeks, frozen in, and arrived on the English coast October 10. Captain Ross, who was directed particularly to examine the western coast of Baffin's bay, had penetrated (August 9, 1818) only to lat. 75° 55', in 65° 32' W. lon. He examined a part of the western coast of Greenland, which he called the Arctic Highlands, in the north-east corner of Baffin's bay, hetwom 70° and 77° lat., and 60° to 72° W. lon, 120 miles in extent, and containing many mountains covered with ice. He found there moss, heath and coarse grass, game and hares, and a large mass of native iron. The only domestic animal of the - inhabitants, who resemble Greenlanders. is the dog, which they use to drag their sledges, made of seals' bones. Their danruage is a dialect of the Esquinnaux. They are of a dirty copper color, five feet · high, and besineared with train-oil and dirt.

pear not to have any idea of a God, but believe in charms. Women who have borne children are treated with much re-Their dances and songs are accompanied by convulsive distortions, They had not the slightest idea of other; parts of the world, or other men. 'Ross' found most of the statements of Buffin'correct. His own discoveries, properly speak- 🥎 ing, did not begin before 74° 30 lat. He reached 77° 40 lat., and the chief geographical result of his voyage was the more accurate determination of the situa- 🤻 tion of Baffin's bay, which, until then, was believed to extend 10° farther to the east than it actually does. Ross was convinced that there is no passage from Bafim's bay or Davis's strait into the Frozen Although he sailed up Lancaster sound (74° 30'), he did not continue his progress far enough to discover that it was open, and a space of 200 miles, particularly Cumberland strait (63° lat.), where a current appeared, and Repulse bay in the north-west of Baffin's bay, was not accurately examined, as he did not arrive there till October 1, and was obliged to leave the coast on account of the danger from the ice.—See Ross's Voyage of Discovery for the Purpose of exploring Bullin's Bay (Lond., 1819, 4to.). The British government, therefore, in 1819, sent out licutenant Parry (q. v.), who had accompanied captain Ross, on a second voyage into Baffin's bay. He penetrated, with his vessels, the Hecla and Griper (the latter commanded by lieur and Liddon), through Lancaster sound into Barrow's strait, in which he examined Prince Regent's inlet, running in a southern direction, andthe Polar sea, and wintered in the Barbor. of an uninhabited island, which he called Melville island (74° 45' lat.). As the had passed (September 10), 110° W. Ion. of Greenwich, he was entitled to the first prize offered by parliament. According to his discoveries, the land stretches along the northern side of Lancaster sound and . Barrow's strait, to 93° W. lon. Beyond this, towards Melville island, there are merely separate islands; whilst, on the southern side, an unbroken tract of land extends in; a western direction, which stretches on the other side of Prince Regent's inlet, far to the west, and borders on a plain of ice, which extends to the highlands, visible in a south-westerly direction from Melvillo Island. The land, seen to the north of Barrow's strait and Melville island, appeared to be a group of islands, which Parry called the North Georgian islands,

With cleven companions, he explored Melville island, and reached, on June 6, the northern coast 175° 34′ 47" lat., and 110° 36′ 52′ lon.). They found no inhabitants, but there were some remains of Esquimanx huts, a musk-ox and reindeer. August 1, Parry left the winter harbor, where he had remained ten months. He now steered towards the west, discovered, towards the south, the coast of Bank's land, but was obliged, by immense fields of ice, August 16, 1820, in 113° 46' 33% ion. (the most western point ever reached in the Polar seas) and 74° 27′ 50″ lat, to return through Davis's strait to England, where both vessels entered the harbor of Leith, October 29, 1820. These discoveries gave some hope of final success, and captain Parry sailed with the Hecla and Pury, May 8, 1821, with provisions for several years. He was instructed to examine the north coast of America. Parry commanded the Hecla; captain Lyon, who had just returned from a journey through the hot deserts of Africa, the Fury. They entered, between 62° and 65° lat., into Hudson's bay, in order to examine the northern inlets. The first, to examine the northern inlets. Repulse bay (68° lat.), permitted (August 22) no passage. The chief object, therefore, was not obtained. Parry now sailed to the north, with the intention of penetrating to the west, but was obliged, after aving examined 200 miles of coast, half of which, and particularly the east side of Repulse bay, belonged to the continent, to return, on account of the ire; and, October 8, he went into Winter harbor. Here he passed the long winter, as he had previously done on Mclville, island, occupied with astronomical and scientific observations. The tedium of the delay was somewhat relieved by playing comedies. magnificent northern light was seen, and a splendid mock moon. Visits were paid by the kind-hearted and mild Esquimaux, who were docile, honest, peaceable, and fond of music. Whilst the thermometer stood at 24°, journeys were made into the The ice was found not to be more than five feet thick, though a severe frost lasted five months. Walls of snow round the vessels, and over the deck, were a protection against the cold. The Es-, quimaux lived in huts of snow, with windows of ice. The vessels were not freed from the ice before June 30, 1822. They then sailed to the north, discovered, on July 13, the Barrow river, with a beautifulcascade, on a picturesque coast, covered with plants; made journeys on land, ob- flattening of the earth towards the poles:

die, first discovered by outstall Flinders. and different from the variation (the disturbance is the greatest near the porth-pole, and is different as observed in a faut of the vessel), and examined Fury \$ Hecla's strait, between Melville peninsul (not to be confounded with Melville island) to the south, and Cockburn island to the north, to the northern point of the peninsula, which was called North-East cape. Towards the west no land was seen; but, as fields of ice made it impossible to get from these straits into the Polar sea, they were obliged to rest satisfied with the examination of Amherst island, 69° 45' lat., 84° lon. Towards the end of September, Parry sailed out of the strait back to Igloolik (60° 20' lat.), where he wintered among the Esquimaux. August 7, 1823, he again entered this strait in search of the Polar sea; but the opening was closed, and, as Parry was unwilling to attempt the passage with the Fury alone, both ships returned the last of August, got free from ice Steptember, 21, and reached the Shetland isles October 10, 1823. Excepting some important mantical/geographical and scientific observa-tions, the chief object of the expedition, a complete description of this key waste, was not effected. Walruses, seals, bears, reindeer, wolves, white and black hares, white foxes, crmines, a single squirrel, many kinds of ducks, ptarmigans, snow birds, single ravens, also a swan's nest, and sonto sumed Alpine plants, runer digynus, & ç., were discovered in these barren regions. See the Journal of a Second Voyage for the Discovery of a North-West Passage from the Atlantic to the Parific, 1821-1821, imder the Orders of Captain Parry (London, 1824, 40.) Jan son, Hooker and Rich ardson deserted in a separate volume, the objects of Latural history collected by the expedition.-See likewise Journal of a Voyage of Discovery to the Arctic Regions, 1819 and 1820, by Alexander Fisher, physician to the Heck (London, 4to., 1824). Captain Sabine returned to England in the Griper, from Spitzbergen, soon after Parry, December, 1823. The object of his voyage had been to make observations on the pendulum. In August, 1823, he advanced as far as 81° lat., in 25° 20' F. lon. In Spitzbergen he found the bodies of the Russians, buried; 85 years before, in so perfect a state of preservation, that the cheeks had the freshness of life. His experiments with the pendulum confirmed the theory of the pervenions of the disturbances of the nee-. The results of his astronomical observa-

tions, made in June, on the island of and, September 27, arrived at Port Bowen, Lapland, were communicated to the royal academy of science. Captain Scoresby, the celebrated Greenland voyager, who had first, in his voyages in 1817 and 1820, approached the eastern coast of Greenland, became more accurately acquainted with it in 1822, when he explored it to 75° lat.; the field of ice, which had formerly prevented any approach to it, having been very much diminished in extent. But it is still doubtful whether it will be possible to obtain any information concerning the old Norse colonies on this coast.—See Scoresby's Journal of a Youage to the Northern Whale Fishery including Researches and Discoveries on the Eastern Coast of West Greenland (Edinburgh, 1823). At the same time that captains Parry and Ross were seeking for a north-west passage into the Polar sea, captain Franklin was sent by the British government to penetrate to the northern coast of America by land, along It dson's bay and Coppermine river. With three companious, among whom was the naturalist doctor Richardson, he reached (August 30, 1819) the factory of York, on Hudson's bay, and, following the source of the rivers, passed through a parren wilderness, of great extent, which was inhabited by, at the most, 120 fairlies of hospitable Crees. From Providence the most northern post of the ful-traders (62° 17' 19" lat.)—Franklin, accompanied by Canadians as interpreters, continued his route through unexplored deserts, but was compelled to winter there for ten menths from September, 1820. the summer of 1821, he reached the Coppermine river, and, in the last of July, sailed along the coasts of the Northern sen. Want of provisions compelled him to return, and he reached, December 17, a post of the Hudson's hay company, on Moose-deer island, in a state of great exhaustion. July 14, 1822, he arrived at the factory of York, after having travelled, altogether, 5550 English unles. His Narrative of a Journey to the Shores of the Polar Sea (London, 1823, 4to.) contains the results of his expedition. Mny, 1824, the British government fitted out a third polar expedition for the discovery of a north-west passage through Prince Regent's inlet, under Parry and

Hammerius, on the coast of Norwegian in Prince Regent's bay, where the ships Lipland, were communicated to the royal wintered. Thence Parry sailed southwardly, July 20, 1825. Storms and icebergs drove the ships ashore, and, on the 25th, it became necessary to abandon the shattered Fury. The Hecka was consequently compelled to return, and, with the crew of the Fury on board, arrived in England October 11, 1825.—See the Journal of a Voyage, &c. (London, 1828).—Capmin' Lyon, in the Griper, accompanied by naturalists and astronomers, also sailed for Baffin's bay, whence it was intended that he should proceed by land to the polar regions, to meet captain Parry onthese coasts, in the summer of 1825. But, August, 1824, he became entangled among the icebergs; on the coast of Labrador, and, after encountering great dangers, reached Southampton island in September. In lat. 66°, the Griper lost her anchors in a most violent snow storm, and was obliged to return to England. disturbances of the magnetic needle, observed by captain Lyon, were remarkable. Near Sayage islands, the needles fluctuated, and did not agree with one another; farther westward, they became still more unsteady, and entirely useless. At length, in Rowe's Welcome, the needles showed, indeed, no variation, but remained in any direction in which they were placed. (See Narrative of an unsuccessful Attempt to reach Repulse Bay, through the Welcome, in H. M. Ship Griper, &c.) In 1825, cuptain Franklin undertook a new journey over land, with the intention of sailing westerly from Mackenzie's river along the coast to Beering's straits, while doctor Richardson should examine the country, with a view to complete its natural history, from the mouth of that river to the Coppermine river. At the same time, captain Beechey sailed in H. B. M. ship Blossom, by the way of cupe Horn, to discover an easterly passage round the Icy cape, or in Kotzebue sound. · la six . months, Franklin reached the Northern ocean, near Garry's island (69° 30' lat.), and returned upon the Mackenzic to his winter quarters at fort Franklin, on Great Bear lake. Both parties left their winter quarters June 21, 1826, and, July 2, separated, in 67° 38' lat. and 133° 52' W. lon. Franklin followed down the western arm Prince Regent's inlet, under rarry and to the Buckenzie, which is a large of the Rocky mountains. He had foot of the Rocky mountains. He had four arrived, July 13, 1824, at Whale thus examined the coasts of the Polar sea that are in Baffin's bay, the limits of ice—a barren wall of rocks, from 118° to 149° 38' lon. Floating ice and fogs comparing Barrow's straigs to Admiralty bay, pelled him to return; but he was fully of the Mackenzie, which runs along the

convinced that a north-west passage was open. The other division, under Richardson and Kendall, explored the coast from the eastern branch of the Mackenzie to the Coppermine river, whose mouth they reached August 8, and returned, after 71 days' absence, to fort Franklin, upon the Great Bear lake. They found much . drift wood upon the coast. According to these observations, there is an open passuge for ships along the northern coast of America, from 108° to 149° W. lon., towards the end of August, and to the east of Mackenzie's river are several conve-nient harbors. The two divisions of the expedition examined the coast throughout an extent of 36°. Between the extreme point reached by Franklin and I cy cape only 11° of this coast are unknown. Meantime, captain Beechey, in the Blossom, had sailed north from Kotzebue's sound, and had penetrated over 120 miles beyond ky cape. Here he waited in vain for captain Franklin's arrival in 154° W. lon., and in a latitude where the length of a degree is only about 20 miles; but he was obliged to return October 14. Captain Franklin had approached to within a short distance of the ley cape, which is in 160° W. lon., when, out of regard to the safety of his men, he was obliged to give up his plan of pressing forward to Korzebue sound, and returned to the Great Bear lake, which he entered September 21. The, point which this expedition reached lick in about 70° 30' N. lat. Collections in natural history, magnetical experiments, and observations on the effect of the aurora borealis upon the magnetic needle, were the fruits of this expedition, from which captain Franklin returned to London, September, 1827.—See Franklin's Second Expedition to the Polar Sea (London, 1828); Richardson's Fauta Bor. Am. (1821); and Beechey's Voyage to Behring's Straits (Loudon, 1831). The admiralty now sent captain Parry, in the Hecla, to reach the north pole, He took reindeer and ice boats on board at Hammerfast, in Lapland; reached Spitzbergen, May 27, 1827; left the Hecla there in the ice; sailed, June 21, with two boats, through an open sea; left the boats on the 24th, and began (81° 12' 51") his journey over the ice to the north pole. But, after 35 days' jour-ney over the ice, during which it rained almost all the time, he reached only the latitude of 82° 45′ 15″. The ice was ev-'erywhere broken. At length he was compelled to return, as the ice was driven to the south. He had travelled over 292 miles in a right line, and 580 with the

necessary windings. The southerly course of the ice facilitated his return. After 48 days' passage through the ice, Parry reached (August 12) Table island, and, August 21, after 61 days' absence, the Hecla. The dip of the magnetic needle had constantly been towards the north, and the western variation diminished. From the 81st degree there was no drift ice, nor birds, nor whales, to be seen, and," with 500 fathous, no bottom could be. found. September 29, 1827, captain Parry and captain Franklin entered the admiralty office within the same half hour. -See Parry's Narrative of an Attempt to reach the North Pole (London, 1828). If the antipolists, or opponents of Barrow, at the head of whom is professor Leslie, who ascribe the breaking up of the ice on the coast of Greenland to the accidental prevalence of warm winds, and infer, from physical principles, the impossibility of reductating the ice of the polar sens, are currect in their views, yet these bold expeditions have been rich in scientific results; they have determined the out-lines of the northern coast of America, and of the western coast of Greenland, and made known the depth, temperature, sultuess and specific gravity of the polar. seas, the rate and direction of the currents, and the state of the atmospheric electricity, and its connexion with the variation and power of the magnetic needle in the Arctic regions. The whole enterprise is a monument of perseverance, hardiness, and courage, as well as of intelligence and skill, highly honorable to the English nation.* The expeditions directed by the Russian government, in part at the expense of the rount Rumjanzoff, have had for their object the examination of the coasts of Kamschatka and the north-west coast of North America, or that of the north coast of Asia and Nova Zembla. Captain Kotzehue (q. v.), on his first expedition (1814-1818), discovered the sound called by his hame, to the north of Beering's straits, and, in 1824, undertook a new voyage round the world, in which it was intended that he should penetrate beyond the Icy cape, which had been discovered by Cook; but the ice obliged him to return, and he arrived at Cronstadt in 1826. The Narratives of these two voyages have been published in English. The polar

"In the spring of 1829, captain Ross undertook an expedition on his own resources, with the pingose of attempting to effect a passage into the Polar sca, and reach Beering's straits along the northern coast of this continent. The results of this attempt have not yet become known to us.

expedition of baron Wrangel, whose companions were lieutenant Anjou, doctor Kober, and some semmen, started from Siberia in April, 1820. Here, and upon the ice of the Polar ocean, they struggled for four years with cold and hunger, asthey could take with them but a small supply of provision in their sledges drawn . by dogs. After passing 46 days upon the surface of the Frozen ocean (at a temperathre of from 2' to 22°), they reached, in their sledges, the latitude of 72° 3'. Wrangel surveyed astronomically the whole coast from cape Schalugskoi to Beering's straits, to the point seen by Billings, 438 geographical miles south-east from Cook's North cape, and the hitherto unknown northern coast of Siberia, and placed beyoud doubt the existence of an open passage between Asia and America. He returned to Petersburg in May. A third expedition was fitted out for Bedring's , remined to Petersburg in May. straits and the Polar seas, under captain Wassiljetf, who sailed from Crons adt in June, 1849, with two sloops. Taptain Wassiljeff discovered an island inhabited by the Alcutians, in 50° 557 57" N. lat., and 193° 17' 2" W. lon. Thence he sailed to 71° 7′, N. lat., 19 minutes farther than Cook had gone b. forchin, and discovered two capes upon the north-west coast of North America, which he named Golownia and Ricord. The otherwessel of this expedition sailed along the custern coast of Siberia, but was compelled to put back, in 69° 10', on account of the ice. Late in the summer of 1892, both ships returned to Cronstadt. To stavey the yet unexplored coasts of the island of Nova Zembla, the Russian gevernment sent lieuteuant Lasureff in 1810, lieutenant Lawrott in 1821, and the lieutenant-captain Litke in 1822. The list added much to our knowledge of Nova Zembla (q. v.) and of the coast of Lapland. A new expedition was intrusted to him in 1823, for the examination of Waygatz island; and he was also instructed to make charts of its coasts, as well as the other coasts of these northern regions, of tho island Werdhuns, and of Waranger bay. He returned to Archangel August 31, 1823. Another Russian ship, the Neptune, which, according to Krusenstern, reached (1817) 83' 20' N. lat., found no indications of a country lying north of Spitzbergen; and this result has been confirmed by Parry's last expedition. The Russia week, however, proved that Asia is not connected with America on the north. (See North America.). A compendious view of the attempts to explore

the polar regions is given in the Narrative of Discovery and Adventure in the Polar Sea and Regions, by professors Leslie, Jameson and Murray.

NORTH POLE. (Sec Pole.)

NORTH POLE, in Magnetism. (See, Magnetism.)

NORTH RIVER. (See Hudson River.)
NORTH SEA (anciently Mori-marusa); a name given to that part of the Atlantic situated to the north of England and Ireland, sometimes also to the German occan (q. v.), or that part of the Atlantic which is north of the Downs and the mouth of the Thames. This term has likewise been applied to the gulf of Mexico, and all that part of the Atlantic which is north of the coast of South America, from the isthmus of Darien.

NORTH STAR. (See Pole Star.)

Northumberland, Duke of. (See Dudley.)

NORTH-WEST COAST OF NORTH AMER-ICA. 'This part of the world has been for some time the scene of an active commerce in firs with China. Cook examined this coast on his third-voyage. On the arrival of the expedition in China, the sailors disposed of the sea-otter skins, which they had obtained, at what seemed to them enormous prices, and it was immediately perceived that this newly discovered branch of trade would be extremely lucrative. Several voyages were accordingly made for carrying on this traffic as early as 1784; and in 1787 two vessels were fitted out from Boston for this descination. In a few years, the trade was almost entirely in the hands of the Americans, and in 1801, out of sixteen ships on the coast, infect were American. which collected 18,000 sea-otter skins, besides other furs, for the China market. In 1822, there were fourteen vessels, from the U. States engaged in this trade, combined with that from the Sandwich islands, in sandal-wood. These vessels are from two to four hundred tons burthen, and carry from twenty-five to thirty men; they are about three years in completing a voyage. After exchanging, with the natives of the coast, for files, such part of their cargoes as is adapted to the wants or fancy of the people (such as blankets, cloths, coarse cottons, arms and ammunition, cutlery and iron-ware, beads, rice, molasses, rum, &c. &c.), they proceed to the Sandwich islands, where they obtain a cargo of sandal-wood, which, with the furs, they carry to Canton, and dispose of for teas, &c. In 1821, the value of the articles thus sold in Can'on was nearly half a million of dol-

lars; and the value in the U. States of the articles purchased there, was about a million of dollars. The trade has, however, declined since that period, in consequence of the most valuable article (the sea-otter's skin) having, since the commencement of the present century, become gradually so scarce that last season not more than 300 were collected on the whole extent of coast, where 18,000 were obtained in 1801. In 1821, an attempt was made on the part of Russia to secure the monopoly of this furtrade, by prohibiting all foreign vessels from approaching within 100 miles of the coasts north of 51° on the American side, below which the fur-trade is worth nothing. By the convention of 1824, between Russia and the United States, this claim was abandoned by the former, and it was agreed that each party might trade on the coasts of the other, under certain restrictions. About 1812, a settlement was made, by citizens of the U. States, near the entrance of the Columbia, or Oregon river, which was taken possession of by the British in 1814, and restored after the peace of 1815. By treaty between the U. States and Great Britain, this river, and the whole coast, are free to both parties; but the British fur company has, in fact, a monopoly of the fur-trade to the westward of the Rocky mountains, except to a small extent on the sea-coast. They have many posts on the several branches of the Columbia, and it has been announced, that they are about forming an establishment on the borders of Observatory inlet, in lat. 50° north. The Russians have given notice of their intention to abandon their principal settlements at Norfolk sound or New Archangel, and remove the settlers to Kodiack.

NORTH-WESTERN PASSAGE. (See North Polar Expeditions.)

NORTH-WEST FUR COMPANY. (See Fur-Trade.)

NORTH-WEST POINT; a cape on the west coast of Africa; lat. 16° 30' S.

North west Territory, situated between 12°30′ and 49° N. lat., and 87°30′ and 95°30′ W. lon., is bounded on the north by the British possessions, east by lake Michigan, south by Illinois, and west by the Mississippi, and a line drawn from the source of this river to the northern boundary. It is about 500 miles in length, and 400 in breadth. It is generally a hilly country, with the exception of extensive prairies. At the western extremity of lake Superior are the Cabotian mountains; and near the mineral district are the Smoky mountains. In some of its fea-

tures this country resembles Missouri territory; but a greater portion of it is covered with wood. The chief rivers, except the Mississippi, are Ouisconsin, Fox, Chippeway, St. Croix, Rum, St. Francis and Savanna, flowing into the Mississippi; Grand Portage, Ontonagon, Montreal, Mauvaise, Bois Brule, St. Louis, and nearly fifty smaller streams, flowing into lake Superior. Fox river flows into Green, bay; Rivière la Pluie falls into the Luke of the Woods. None of the lake rivers are more than 150 miles long, and few more than 50 miles. The largest branch of the Mississippi in this territory is the Onisconsin, which rises in the northern interior of the country, and interlocks with the Montreal of lake Superior. It has a course of between three and four hundred miles, a has h shallow and rapid current, but is gendrally navigable for boats in good stages of the water, and is 800 yards wide at its mouth. There is a portage of only half a mile between this and Fox river, which flows into Green bay of lake Michigan. This portage is over a level prairie, across which, from river to river, there is a water communication for pirogues in high stages of the water. Fox river has a course of 260 miles, and runs through Winnebugo lake. It has a fine countily on its banks, with a salubrious climate. Chippeway is a considerable river, and enters the Mississippi just below lake Pepin. It is half a mile wide at its mouth, and has communication by a short portage with lake Superior. This is a fine region for hunters. In the upper part of the country, buffaloes, elk, bears and deer are common. Beavers, otters and musk-rats are taken for their furs. trappers and savages rount over inhucuse prairies in pursuit of their game. In some parts of it, the soil is fertile. White and yellow pine and canoe birch are common among the forest trees. All the water-. courses, ponds and marshes are covered with wild rice, which consitutes a considerable part of the food of the inhabitants. The head waters of the Mississippi are estimated at 1330 feet above the level of the sca. It is a country abounding in minerals. There are great quantities of terre verte, or green earth, lead, copper-The lead mine district is in and iron. the lower part of the country, between Rock river and the Ouiscopsin. Here, on a river called Fever river, are the chief ; establishments of the present miners, and the mines are probably as rich and abundant as any in the world. Great quantities of native copper have been supposed

but recent and intelligent travellers have not confirmed the expectations which had been raised by common report. There are, however, sufficient indications of the existence of mines of copper; and lead and iron are found in many places. southern parts of this extensive country possess a climate comparatively mild, and resembling that of the northern belt of Missouri. At the falls of St. Anthony, the summers are temperate, and the winters extremely cold. At at. Peter's, in 1820, the mean temperature of January was zero-a degree of cold not felt in any part of the U. States that is much settled. At the falls of Packagama, on the Mississippi, about 1200 feet above the sea, water has been known to freeze considerably on the 19th of July. The inhabitants of the North-west Territory are under the furisdiction of the government of Micligan. The country is divided into four counties, or, rather, only four counties are set off. named and inhabited by whites, viz. Brown, containing, in 1830, 964 inhabitants; Chippewa, 625; Crawford, 692; lowa, 1589. The principal towns of villages are Sault de Ste. Marie, on the south bank of St. Mary's river, containing 356 inhabitants; and Prairie du Chien, on the Mississippi, three miles above the jetetion of the Unisconsin, containing 593 inhabitants of the Section of the Chief and the Section Sectio iants. Most of the lands of this region are owned by the Indians, or are claimed by the U. States. (See Long's Second Exnedition, and Flint's Geography.)

Norton, Thomas; a dramatic writer of the sixteenth century, a native of Sharpenhoe, Bedfordshire, principally known as the author of the three first acts of Ferrexand Porrex, to which Thomas Sackville, earl of Dorset, added the fourth and fifth, and published the whole under the title of Gorboduc. He also put into metre twentyseven of the Psalms in Sternhold and Hopkins's version. His death took place

about 1584.

Norton, John. (See Appendix, end of

this volume.)

NORWAY (Swedish Narrige, Danish Norge, pronounced Norre), the proper native country of the Normans (q. v.), a kingdom of the Scandinavian peninsula, is bounded to the west and north by the Northern Atlantic ocean, to the east by Russia and Sweden, to the south by Sweden and the Cattegat. The history of the earliest and the middle ages of Norway consists in legends contained in the Heimskringla, which is for Norway what the Edda is for Iceland.—See the magnificent, sope are constitution.

exist on the shores of lake Superior; edition of the Heinskringla (Copenhagen, 3 vols. fol., with a Latin and Danish translation). Little is known of the history of Norway before the end of the tenth century, when the Christian religion was estublished there by Olaf I, not without violence. Olaf II continued this forced conversion (1020), and made religion the means of suppressing several petty princes, who had a share in the government. Camute the Great, king of Denmark, conquered Norway (1028), but did not long retain possession of it; and the country had its own monarchs again from 1034, who even for a time governed in Denmark. When, with Hakon VII, the male line of Norwegian kings became extinct, the estates elected the young Swedish king Magnus VIII, Hakon's nephew, to rule over them. His grandson, Olaf IV, was elected to the throne of Denmark in 1376, and, on the death of his father in 1380, governed both countries together; and, leaving no children at his death, his mother, Margaret (q. v.), daughter of Waldemar III, king of Denmark, inherited both thrones; from which time forward Denmark and Norway remained united; but yet the latter, with some interruptions, at a later period, retained its own constitution. This union of both countries continued till 1814. 1812, some of the allied powers promised Sweden the kingdom of Norway it she would unite with them against France. Norway was to be taken from the Danes, who were allies of France. After the battle of Leipsic (Oct., 1813), the crown-prince of Sweden, with his army, proceeded towards Denmark, and, after some bloody scenes in Holstein, pa ace was concluded at Kiel (14th Jan., 1814), in which Denmark ceded the kingdom of Norway to Sweden. But the Danish prince Christian, governor of Norway, had been chosen independent sovereign of Norway, by the estates of that country, who would not acknowledge the cession which Denmark liad made of Norway to Sweden at the The crown-prince of peace of Kiel. Sweden, therefore, entered Norway (July, 1814), and, after several battles of not much importance, the country submitted to the Swedes, not without suspicion of a secret '. understanding, although the people had solemnly sworn in all the churches, some months previously, to lay down their lives for independence. After this an arms, tice and a convention were concluded at Moss (Aug. 14, 1814), according to which Norway was to be united to Sweden, but as an independent kingdom, and with a The constitution

which had been formed (May 17, 1814) for Norway, by the dict (Storthing) assembled at Eidswohl, was accepted by the king of Sweden. It is true that disturbances arose in some parts of Norway, but they were without effect; and the Storthing, assembled at Christiania, decided upon the union of Norway with Sweden, Oct. 20, 1814. According to the constitution formed Nov. 4, 1814, with a few alterations, Norway remains a free kingdom, independent and undivided. On the Norwegian coins the royal title is altered, so that Norway is named before Sweden. A vicerov or governor is to reside at Christiania, and the nution is to be represented at Stockholm, by a deputation of three Norwegians. the crown-prince or his oldest son can be 'viceroy. A Norwegian or Swede may be appointed governor. The king has the executive power; the Storthing, which consists of the delegates of the nation, who deliberate and vote in two chambers, called Odelsthing and Logthing (q. v.), the legis-Norway has a population of 1,050,132, on a superficial area of 122,960 square miles. The severity of the climate is the cause of the thinness of the population: in the eastern part it is excessively cold; on the coast it is somewhat milder. The air is healthy, and the heat in summer very great, but of short continuance. The country every where contains numerous morasses, forests, and barren tracts. A branch of the Kjælen mountains, under the name of the Doffrefield, divides Norway into northern and southern. indented coast (from North cape, 71° 10', to Lindesnes) is lined with islands and . : slets. Some parts of the country are favorable to pasturage, but sufficient corn is not raised for the wants of the inhabitants, and in the north part of the kingdom a great number of the inhabitants live on dried fish, and bread, made, in part at least, of the bark of the pine (pinus silvestris). The chief article of commerce is ship timber, exported principally to England. Other articles of export are iron, copper, pitch, resin, salt, butter, furs, potash, and dried fish, particularly herring. The present condition of Norway is by no means flourishing. The productions of the country are in less demand than formerly, and the commerce has very much declined, particularly the lucrative tracle to the Mediterranean. The mines are for the most part neglected, and iron is even imported from Sweden. The revenue in 1826 was \$1,900,000; the expenditure \$1,800,000. Measures are taken for the extinction of the · public debt, which amounts to \$3,500,000,

exclusive of the bank paper. The land force is fixed at 12,000 men; but in peace only 2000 are kept on foot. The navy in 1821 was composed of two frigates, six brigs, and eight schooners. The inhabitants are Norwegians and Finns, and of the Lutheran religion. Their language closely resembles the Danish. The people are ingenious, industrious, frugal, honest, and hospitable, passionately attached to freedom and their native country. The nation is composed of the nobles (the further continuance of nobility was, however, abolished by the Storthing in 1821), the clergy, citizens, and peasants. The country is divided into two counties and sixteen villages, or into five bishoprics and four dioceses—Aggerhgus (containing the capital Christiania) Christians and Bergen and Broutheim (in which the city of and Drontheim (in which the city of Drontheim belongs to the diocese of Dronthein), and Nordland with Finmark, (Norwegian Lapland). The Norwegian literature is obnost entirely composed of periodical works, and works of local interest. There are, however, some modern poets of Norway; among them are Zettlitz (di ed 1821), Olsen, and Harsen. The remindical State is devoted to the old northern periodical Suga is devoted to the old northern languages. (See Sweden.)

Nonwich; a large, populous, and ancie a fity of England, on the river Wenson, which is navigable up to the town, and over which it has no fewer than nino bridges; three of them of iron. It Irad formerly an embattled wall, with twelvs gates, and flanked by forty towers, some remains of which are yet to be seen. castle stands in the centre of the town, and was first creeted in the sixth century, by the. Saxons. The keep, a principal tower, is the only considerable part of the building The cathedral is which now remains. one of the most spacious and handsome, buildings of the kind in the kingdom. It was not completed in its present form till the beginning of the sixteenth century. The architecture of this noble pile is chiefly in the Norman style, of which the semicircular arch, and large short column, are the leading features. It has a lofty tower,: surmounted by a spire, the whole height of which is 315 feet. Norwich was early. famed for its woollen manufactures, which were carried to a great extent, when they received a fatal check from the war begun in 1793, from which they have never 😁 The staple artithoroughly recovered. cles are bombasines, worsted damasks, flowered satins, and fine cambes. To these articles have been recently added the manufacture of cottons, shawls, and

other fancy goods, both for furniture and dress. The manufacture of cotton thread lace has also been introduced; and the trade in linen, called Suffolk hompen, is in a flourishing state. In 1810, mills for throwing silk on an extensive scale were creed, and this manufacture employs 1000 Although polygamy is not persons. Population, 50,288; 22 miles west from Yarmouth, and 108 north-east miscuous intercourse of the from London; lon. 1° 17′ E.; lat. 52° 38′ N.

Nonwich; a city in New London county, Connecticut, on the Thames, at the head of navigation, 13 miles north from New London; let. 41° 39 north; lon. 72° 7' west; population in 1831, including the township, 5109. It consists of three parts -Chelsea Landing, the Town, and Bean Hill. Chelsea Landing is situated on the point of land between the Shetucket and Yantic, which here unite to form the Thames. The site is on the declivity of This is a hill, high, irregular, and rocky. the commercial part of Norwich, but its business is not extensive. The town is about two miles north-west of the (Landing. It contains a pleasant square, and many handsome buildings. The courts for this county are held alternately hereland at New London. Bean Hill is a pleasant village on the Hartford road, in the western part of the township. Negwich contains houses of public worship for Congregationalists, Episcopalians, Baptists, and Methodists. The falls of the river a this place afford extensive water power and there are considerable manufactures.

NOSAIRIANS, NASSARIANS OF ANSA-RIANS; a Mohammedan sect of the Shiite party, which was formed in the 270th year of the Hegira, and received its name from Nasar, in the environs . of Koufa, the birthplace of its founder. At the time of the crusades the Nassarians had spread widely in Syria and Mesopotamia, and rivalled the Ishmaclites in nower. They were afterwards confined, by the victories of the Turks, to a strip of mount Lebanon, in Syria, on the Semmack, which they now occupy as tributary to the Turks, though in other respects as an independent nation. Their chief town. Sasita, eight leagues from Tripoli (Tarabhus), is an old fortress, with a village of 250 houses, and the residence of their lay scheik, who governs them as hereditary prince and vassal of the Porte. The district of 800 villages, in which the principal part of their population resides, under the governments of Tripoli, Damascus, and Hamah, is not very fertile, but pro- duces grain, garden fruits, figs, mulberrytrees, oranges, and wine, which they ak-

They also mise cotton, silk, gall-nuts, madder, and other ! drugs, in which they carry on a profitable Their manners are rude, and cortrade. rupted by remains of heathenish customs, which remind us of the Lingan worship. Although polygamy is not allowed, yet on certain festival days they permit the pro-miseuous intercourse of the sexes, and are divided, after the manner of the Hindoos, into numerous castes, which oppress one another. The Turks, to whom they make a firm opposition, and the Ishmaelites(q.v.), their nearest neighbors, detest them, although they fliffer slightly from the latter in their religious views. They are, like them, worshippers of Ali, believe in the transmigration of souls, but not in a heaven or hell. They are friendly to Christians, and observe Christian festivals and ceremonies, but without understanding their meaning. They moreover exhibit, in their worship of God, many traces of the worship of nature of some of the old Asiatic -Certain unimals and plants are sacred with them, and the secret parts of females, as an emblem of the principle of generation, is an object of their worship. They have many places of pilgrimage and chapels in common with the Turks, in which their worship is exercised with great formality. A spiritual head, Scheik Khalil, directs their religious concerns, and wanders around among them as a proph-The formerly current opinion, that the Nassarians were Syrian Sabians, or Christians of St. John, has been completely exploded by Niebuhr, and the accounts. of Rousseau, the French consulat Aleppo.

Nose (næse, nosa, Saxon); that prominence on the face, which is the organ of scent and the enunctory of the brain. The ancients seem to have had an aversion to small noses, and the Romans esteemed. above all the aquiline nose, which Pliny termed, by way of distinction, royal. It is thus that Ælian has described that of Aspasia, and Philostratus those of Achilles and of Paris. According to Plutarch, Cyrus had the same; and on this account the Persians are said to have admired noses of this shape. But aquiline noses were reckoned beautiful only when the curve. was gentle and almost insensible, in contradistinction to such as, are decidedly crooked, resembling the beak of a parrot. The Grecians, indeed, generally speaking, seem to have held a straight line from the forchead, or rather slightly inclined, to be the beau ideal with respect to this feature; ... and accordingly we find it in their best statues, &c. They, however, participated in the dislike to small and unobtrisive noses; and probably one cause for this is to be found in the fact of their making the expression of indignation and anger lie chiefly in the nose and nostrils. It may be remarked, in confirmation of the above observations, that the short nose is never to be found: in Roman sculpture earlier than the times of Carucalla, when the art evidently declined, as is obvious, among other proofs, from the introduction of so bad a taste as working in variegated mar-

Nosology (from the Greek 100005, disease, and 20005), in medicine; that science which treats of the systematic arrangement and classification of diseases.

Nossa. (See Northern Mythology.)

Nostradamus; a celebrated empiric of the sixteenth century, born in December, 1503, at St. Remy, in Proyence. Af-ter studying at Avignon and Montpellier, he practised medicine at Agen, Marseilles, Lyons, and Aix. He pretended to foretell future events, and published a volume of obscure metrical rhapsodies in 1555, under the title of Prophetical Centuries. Henry 11 and Catharine de' Medici vielded implicit credence to his pretensions, and loaded him with favors; Charles IX himself came in person to Salon, for the purpose of visiting him, and appointed him his first physician. He died July 2, 1566. There is an English translation of his book in one folio volume.

NOTABLES (les notables) signifies, literally, the most important men in a state, In France, where alone this expression was usual, it signified the denuties of the states who were appointed and convoked by the king. In the early history of that country, mention is several times made of the notables; but the first assembly of any importance was in 1558. From 1626 no such assembly was again called, till, in 1786, the minister and controller-general Calonne conceived the idea of summoning the notables for the purpose of effecting several arrangements, which he considered necessary; and there were accordingly assembled, by an ordonnance dated December 29, 1786, 7 princes of the blood, 9 dukes and peers of France, 8 field-marshals, 22 noblemen, 8 counsellors of state, 4 masters of requests (maîtres des requetes), 11 archbishops, 37 chief justices, 12 deputies of the pays-détats, the civil · lieutenant, and 25 magistrates of the different cities of the kingdom, making in all , 144 persons. After this assembly had continued its sessions from February 22 to May 25, 1787, it separated, and the fol-

1. The provincial assemblies were established according to a plan proposed by the notables; 2, the council of finance was organized as they wished, and was to publish annual reports of the receipts and expenditures, and also of the pardons and pensions; 3. the abolition of the correct; 4. the abolition of the tolls and other obstacles to a free passage through the interior; 5, the abolition of the salt tax, which was to take place by degrees, as the revenue was improved by retrenchments, &c.; 6. freedom of the corn trade, and of the internal trade in general; 7. careful improvement in all departments, and a yearly retrenchment of at least four millions; 8, retrenchment in the household of the queen and princes; 9, a yearly loan of fifty million-livres; 10, a yearly tax of fifty millions upon such articles as would render it least burdensome to the people; 11. the provincial assemblies were not to consent to the imposition of any new tax till the retrenchment should amount to forty millions. This assembly forms an epoch in the modern history of France. Assecond. meeting of the notables was called in November, 1788, to consult on the manuer of assembling the states-general.

Norman (Latin notarius, from nota, mark); originally denoted, with the Roman, those slaves or freedmen who acted as stenographers (making use of certain abbreviations, signs, note, particularly if the meetings of the senate. In later times, the notarii were the secretaries of public authorities. From the Romans the name passed over to the nations of Western Europe; and in modern times a notary is a witness, appointed as such by government, whose testimony is in some cases useful, to give credibility to instruments; in other cases is required by law, to give them full validity, as, for instance, in protests of bills of exchange, &c. In England, the importance of notaries is comparatively small; in Germany, the emperor, while the empire existed, appointed the notarius publicus sancta Casarca majestatis; und. as the administration of each country belonging to the empire strove to limit, 'as much as possible, the influence of the emperor, the importance of the imperial noturies was small. When the empire was dissolved, every government, of course, appointed its own notaries, which formerly was a privilege of the emperor or his vicars. In France, the importance of the notary was, and still is, greater than any where else. It was so before the revolution;

nd he has retained his importance in the new administration of justice. He is fnot only a public witness for every one who wishes his testimony, but he is also the great witness of government, or the political society. He makes all contracts. . mortgages, and other deeds and conveyances, where the property in question amounts to more than 150 francs. The instruments of a notary have full authority, and no testimony against them is permit-The notary keeps a strict register of all his legal acts, and, for the preservation of the same, is responsible to the public. A party to a contract finds the original of his instrument with him, in case he has lost his copy. The notaries also perform an important part in the division of inheritances, make the inventories, direct the business, and make a report of what has been done. The notaries in the district of a court of the first instance form a body, which chooses a board (chambre des notaires), consisting of from one to hine members (in Paris of nineteen), a president, a syndic, a reporter, a secretary, and a This board manages trensurer. affairs of the body, and adjusts also all, disputes of third persons with notaries respecting their official business and fees. -See Dictionnaire du Notapiat (Paris trom 1832 to 1824, 4 vols.).—h England and the U. States, a notary public is a person who publicly attests deeds, or willings, to make them authentic in another country; but he principally acts in business relating to commerce; makes protests of bills of exchange which are not accepted or .not paid; attests the statements of thasters of ships, in regard to the damage which their vessels have suffered, &c.

Noration, in arithmetic, is the method of expressing, by means of certain signs, any proposed number or quantity. the modern analysis, notation implies a method of representing any operation belonging to this science; and the judicious and ingenious selection of proper symbols forms not the least important part of it. The success of a great mathematical operation depends much upon this point, and the science itself has sometimes made a new advance by the invention of new and more manageable symbols. common scale of notation, every number is expressed by the ten characters 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, the nine first of which represent different numbers of units, and denote various values, according to the place which they occupy, and according to the following scheme:

Tens of Millions
Millions
Hundreds of Thousands
Tens of Thousands
Thousands
Hundreds
Tens

so that, beginning at the right, a character standing in the first place signifies units; in the second, tens; and so on; so that each character signifies ten times more, according as it stands a place farther to It 7 stands in the place of the the left. units, it signifies 7 units; if it stands in the place of the ten-thousands, it signifies 7 times ten thousand. To determine the place of a character, zeros are made to the right of it: thus, to express seventy thousand, we write 70,000, which shows that 7 stands in the fifth place, which is that of the ten-thousands. The system proceeds still farther: if we have to express seventy thousand one hundred and thirty-four, we do not write 70,000, and 100, and 30, and 4, but 70,134. Place the above numbers one under the other, and the reason is obvious:

It appears that it is unnecessary to retain three of the zeros to the right of 70,000, the two zeros to the right of 100, and the zero to the right of 30, because, if we leave them out, thus,

> 0] 3

and write the remaining figures all in one line, thus, 70,134, each character will have the same place as it had when each number was written out full, and therefore will have its due value. In order to give a number its proper position, a zero is written wherever no number is to be expressed in one of the other places, as in the above case, the zero to the right of 7, without which the 7 would have denoted seven thousands, not seventy thousands. This is the system of notation of whole numbers, and the mode of expressing fractions differs only in this, that they are numbered from left to right.

			••		٠.	_	g.	
9	_8	•	:		kips	idth	onsa	
ussin	dred	80	,	章	die	user	T.	
Thousands	Hundreds	Tens	Units	Tenths	Hundredths	Thousandths	Ten-Thousandt	

The decimal (See Decimal Fractions.) system, so simple and perfect, is one of the most striking of human inventions, and few things have had a greater influence upon the progress of science and civilization. Little do we dream of the enormous difficulty of calculations with the Roman and Greek notation, and the obstacles which it must have thrown in the way of every art, science or occupation requiring arithmetical operations. The commerce or the navigation of the present day could hardly have been carried on under such systems, and the general habit of keeping regular accounts, which so greatly facilitates the business of life, and tends so much to preserve the good order. and peace of society, could hardly have grown up. The origin of this invention, as of many which have exerted the greatest influence on society, is veiled in obscurity. (For a few historical remarks on the introduction of ciphers, see the article Ciphers.) As in our decimal system every possible number is expressed by ten characters, so we can imagine a dyadic or binarian system, of which two is the fundamental number, and which, to express analogously every possible number, would require but two characters (say 1 and 0), one being represented by 1, two by 10, three by 11, four by 100, five by 101, six by 110, seven by 111, eight by 1000, nine by 1001, and so on. Leibnitz first developed such a system in his Dyadics. In the same way we can compose systems of three, four, or any given number of characters; and as 12 is a more convenient number for division and subdivision, we knew a German professor of mathematics, who, having invented for himself two more characters for 11 and 12, and given them names, made a dodecadic system, by which he performed the most rapid calculations: 12 was the basis of his system, as 10 is of ours, and each character signified 12 times more than its neighbor . to the right, and 12 times less than its neighbor to the left: thus, suppose he used for 10 the character X, and for eleven T, then his series would be thus:

11	1311
2-2 ·	14-12
3-3	15-13
4-4	16-14
. 55	17-15
6-6	18-16
77	19-17
8-8	2018
9_9	21-19
10-X	22_iX
11—T	23-17
12-10	24-20
-710	~~~~~

so that 100 expresses, in this system, what we should represent by 144. We have dwelt on this point, because it seems to us that the practice of making experiments of this sort would serve to show pupils. more clearly, the nature and character of our system of numeration, the great and sele advantage of which lies in the system, not in the number which serves as its basis. Several tribes have not ad vanced beyond the rude system of adding successively one to one, and giving a new and arbitrary name to each new number; but for this reason they cannot count far, and, after going beyond a certain number, they generally say numy. The Romans, though they had the decimal numeral system, nevertheless had not the decimal notation. In their notation, they took five units together, and wrote them thus, V; then they brought two such fives together, from which originated X, or X; five tens they write L; one hundred was written C, the initial of centum; five hundreds were expressed by the sign D; two five-hundreds, or one thousand, by M. (See M.) A cipher written to the left of another of higher value, in this system, takes so much from its amount, as, XL is 40, and XC is 90; accordingly 1847 is written MDCCCXLVII. Here no sign has a value according to its position (except, in some degree, X; but it is not the value of X which is changed, but merely its character: it becomes negative by standing to the left of L), and pronouncing such a. number is making an addition. utterly impossible for us to imagine the difficulty of their calculations, because, if we take a case of simple addition, as,

> M XLVIII CCIX ' XXXVIII XCII

it would be comparatively difficult for us in a great measure, that of the Greeks to perform it, although the numbers form themselves in our mind, not according to these signs, but according to our decimal representation, and thus we can perform the operation much easier than they could. They, therefore, were obliged to have recourse to their abacus. (q. v.) We' may add, that 500 was represented by 10, as well as by D, and that for every O added, this number became increased tenfold; 1000 was also expressed by CIO, as well as by M; and for every CD added, one at each end, the number was increased tenfold. A horizontal line drawn over any figure, increases it a thousand fold.

Notation of the Greeks. These people had three distinct notations, the most simple of which was, the making the letters of their alphabet the representatives of numbers: $a, 1; \beta, 2; \gamma, 3;$ and so on. Another method was by means of six capital letters, thus, I (in, for piu), 1; 11 (fierre), 5; Δ (δεκα), 10; H (δεκατον), 100; X (χελεφ.), 1000; M (μυριά), 10,000; and when the letter H enclosed any of these, except I, it indicated the enclosed letter to be five times its proper value, as stated above; thus

 $\overline{[4]}$ represented 50; $\overline{[11]}$ 500; $\overline{[x]}$ 5060; and so on. This notation was only used to represent dates and similar cases; for arithmetical purposes they had a more organized system, in which 36 characters were employed; and by these, any munber not exceeding 100,000,000, might be expressed, though, in the first instante, it appears that 10,000, or a myriad, was the extent of their arithmetic.

Our digits, 1, 2, 3, 4, 5, 6, 7, 8 9, they expressed by $a, \beta, \gamma, \delta, \epsilon, \varsigma, \zeta, \eta, \theta$. For our tens, as, 10,20,30,40,50,60,70,80,00, they employed ι , κ , λ , μ , ν , ξ , σ , π , ℓ_1 ; for hundreds ρ, π, τ, υ, ψ, χ, ψ, ω, Ø; α, β, γ, δ, ε, ς. ζ. η, θ, for thousands

that is, they had recourse again to the characters of the simple units, which were distinguished by a small lota or dash placed below them; and, with these characters, a number under 10,000 was readily expressed; and this, as we have observed above, was for some time the limit of their arithmetic. Afterwards 10,000, or a myriad, was represented by M, and any number of myriads by M placed under the Thus, number of them.

represented 10,000 20,000 30,000, &c.

above described, only substituting Hebrew letters for Greek, as far as thousands; and, , for representing thousands, they had again recourse to their simple units, distinguishing them only by two dots, or acute accents; thus, X, or X, expressed 1000; , 2000; i, 10,000; and so on. (For the Egyptian system of notation, see Hieroglyphics, vol. vi, p. 314.)

Norch. (See White Mountains.) NOTE, BANK. (See article Bank, first

Note, Promissory. (See Bill of Ex-

change.)

Notes, in music; the signs for tones (note musice). Even in the most remote; antiquity, certain letters of the alphabet were used as signs for musical tones. According to some, the Hebrews made use of accents for this purpose, as the modern Greeks still do. The Greeks used different signs for vocal and instrumental music ; and, as they had not yet conceived the idea of using the octave to express, by means of a prefixed key, a number of the most diversified tones in a similar manner. they must have required a great number . of notes (said to have amounted to 990; half for vocal tones, half for instruments). As they used the alphabetical signs for notes, it became necessary to employ the same letter in different positions (inclining, inverted, &c.); thus r signified, in different positions, seven different tones. Accents, also, were used, partly by them-selves, partly added to letters. If a poem was to be sung, the letters which signified. the instrumental tone were placed first; under these, the letters for the voice; and under these, the words. As the syllable's of the Greek language have mostly a natural and distinct quantity (i. e. duration of time), the Greek notes were not required. to show the time, and, generally, could be restricted to height, depth, and nature of tone. In the case of the syllables called common (short and long), there was a liability to mistake, and they were therefore marked with A if long, and with B if short. The fifteen chief tones of the Greek system (extending from our A to d; see the article A) were first reduced to seven by pope Gregory I, towards the end of the sixth century, and marked with the seven first letters of the Roman alphabet; so that the capitals were used for the first voice, the small letters for the higher octave, and the double letters for the highest 🛎 octave. Parallel lines were soon invented, The Notation of the Hebrews resembled, on which the letters were written. These

were used until the happy idea was conceived of substituting for letters points with five lines, the points and rhombuses being placed as well between the lines as This invention is generally asou them. cribed to Guido of Arezzo. According to some, it was known even in the tenth century. The letters which had been formerly used as notes now became clets. Still the sign for the duration of a tone was wanting. The way of marking it was invented, according to some, by a German of Cologne, of the mame of Franco, who lived towards the end of the eleventh century. Others ascribe the invention, or, at least, the improvement, to John de Murs (Jean de Moeurs, or Meurs). The diminutio, or division of one note into others of less value (for instance, the division of a fourth into two eighths), and the use of running notes, was invented first by Jean Mouton, chapel-master to king Francis I, in the sixteenth century. Since Rousscan, the designating of notes by ciphers has been repeatedly proposed, and adopted with great success, in elementary schools; but, in other respects, the old way of writing notes-one of the most ingenious contrivances ever produced, which seems to have given to Leibnitz even the idea of a pasigraphy (q. v.), or system of universal writing—has kept its ground. As to printing notes, two periods are distinguished—the first when notes were printed—corresponding by plates, the second by movable types, note on the The first plates used for this purpose were—however, has of wood, and the oldest known are of Books are known of the time when this way of printing was not yet quite perfected, in which notes were drawn by the pen. Then the printing of notes by copper-plates was invented. The cheaper way of printing from tin plates, in which the notes are punched with steel punckes," did not become common till the middle of the last century. As to the second period, the inventor is uncertain. Some consider Ottavio Petrucci, in the beginning of the sixteenth century, as such. James Sanlecque (born at Chaulne, in Picardy, 1573), a celebrated type-founder at Paris, where he died 1648, probably introduced the printing of notes from types into France. Yet the art of printing with them remained very imperfect, until the well-known typographer Breitkopf, Leipsic, carried the process, in 1755, to such perfection that he may fairly be called the second inventor. Tauchnitz, realled the second inventor. of Leipsic, first stereotyped notes. The process of lithography is used at present. Great musicians can sometimes compose

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with the pen in their hand, and without the aid of the piane. They hear all the music in their soul, as a picture stands, with all its lines and proportions, before the mental eye of an artist, before he touches the canvass. Many persons, however, who play well extempore, are by no means able to compose on paper; and for them a machine would be convenient, which could accompany the players motions, and write the notes with a rapidity equal to that of his performance. The first idea of such a machine was given in . the Philosophical Transactions, in 1747 -(No. 483), as the invention of an English . clergyman of the name of Creed; yet the practicability of this idea was not sufficiently shown. In 1748, a Mr. Unger, burgomaster of Eimbeck, had the same idea without knowing of Creed's communication; and, in 1752, the academy of sciences at Berlin approved of his suggestions; but nothing was done until a member of the academy, Mr. Sulzer, induced a mechanic, Holdfeld, to construct such a machine from an imperfect description of Unger's plan. In the Nouveaux Mémoires de l'Académie royale des Sciences et des Belles-lettres à Berlin, of 1771, is adescription of this machine. It consists of two cylinders, from one of which paper rolls off, whilst it is rolled round the other, during which time the keys move corresponding pencils, which write the paper. Not much use, however, has been made of the machine.

Norker, surnamed Labeo; a learned monk of St. Gall, who died about 1022, and left a translation of the Psdms, withnotes, in High German, one of the most important monuments of the oldest German prose. The manuscript is at St. Gall. The work is printed in Schilter's Thesau-

Notre André, le. (See Lenôtre, André.)

Notre Davie; the old French expression for the Virgin Mary, similar to the English expression Our Lady, and the German expression Unser liebe Frau; hence it is the name of many churches, &c., in France, dedicated to the holy Virgin, and particularly of the great cathedral at Paris, whose two high square towers, without spires, are celebrated for their great bells, and also for the spleudid prospect to be seen: from them. The church itself contains four rows of pillars, 54 chapels, an excelent choir, and a great number of calebrated monuments and admirable paintings.

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NOTTINGHAM; a large and populous town of England, situated at a short distance to the northward of the banks of the Trent. The little river Lene runs close to the town on the south side, and joins the Trent at about one mile distant from it. The town stands on several rocks, hills and valleys, forming a great diversity in the streets, many of which are extremely steep; the highest elevation is unwards of 90 feet above the level of the adjoining meadows. The castle was built in the reign of Charles II. Near it is the site of the ancient fortress founded by William the Conqueror, and celebrated during the civil wars. The staple manufacture is that of stockings, chiefly the finer kinds, as those of silk and cotton. The twist net is also made to a considerable extent, and the number of frames and machines cannot amount to less than 15,000. Several large mills have been erected in the town and its vicinity, for the spinning of cotton and preparing of silk. There are also manufactures of lace for veils, shawls, &c., the working of which gives employment, and is a source of profitable industry, to females. Nottinghum has derived great benefit from the extension of inland pavigation, having become a depot of goods for the adjacent country. Nottingham is a place of great antiquity, and there still remain evident traces of the Druids, as well as the habitations of the ancient Britons. Its popula-tion, by the census of 1821, 40,415, is now supposed to be increased to 50,000. 124 miles N. by W. from London; lon. 1° 12' 47" W.; lat. 52° 59' N.

NOTTINGUAN, EARL OF; lord chancellor. (See Finch.)

Northneyam, Earl of; a naval commander. (See Howard, Charles.)

Nous (from the Latin nomen, name), in grammar; the name of a thing, or, more accurately, the name of a conception, whether general or particular. may have conceptions of substance or of attribute, nouns are either substantive or adjective. Again, as we have particular conceptions, or conceptions of individuals. and general conceptions, or conceptions of classes of individuals, nouns are either proper or common. In order to express unity or plurality of conception (number), the terminations of nouns undergo certain modifications of form; in some languages two, in some only one. Thus, in English, the torm man expresses one individual, the form men, two or several; the former is said to be in the singular, the latter in the plural number: but in some len-

guages, a peculiar modification is used to express the conception of two objects, and this is called the dual number. Verbs have also a corresponding modification of form, although they do not convey any idea of one or more objects. (See Verbs.) To express the relations of conceptions to each other, the English language employs prepositions, or juxtaposition; but many languages make use of an inflection of the primitive form of the noun: this inflection, is called *case.* The number of cases is different in different languages, but is rarely more than six. Many relations, even in the inflected languages, are expressed by prepositions, and, in most instances, a peculiar inflection and a preposition are both used. (See Language, and Philology.)

Nourishment. (See Chyme, and Dyspepsia; see also Aliment, placed, by unistake, after All-Souls, vol. i, p. 177.)

Novaculate. This stone is commonly known under the names of hone, Turkey oil-slone, &c. It is of a slaty structure, and owes its power of whetting or sharpening steel instruments to the fine siliceous particles which it contains. Various other stones are used as whetstones, such as common slate, mica slate, freestone, &c.

Novalis. (See Hardenberg, Frede-

ric.) Nova Scotia; a British province of North America, situated between the fortythird and forty-sixth parallels of north latitude, and between the sixty-first and sixty-seventh degrees of west longitude; and bounded on the north by the strait of Northunderland, which separates it from Prince Edward's island; on the north-east by the gut of Canseau, which divides it froni Cape Breton; on the south-east and south by the Atlantic ocean, and on the west by the bay of Fundy and New Brunswick. It is a peninsula, connected by a narrow isthmus with the continent, and is about three hundred miles long, of unequal breadth, containing about 15,617 square miles. Cape Breton island belongs to this province, and constitutes one of its counties. The civil departments of the province consist of divisions and counties. Of the divisions there are five—the Eastern, Middle, Western, Halifax, and Cape Breton. The Cape Breton division comprehends the whole island of that name, which forms but one county. Thus there are ten counties, and these are subdivided into districts and townships. The term. division has reference only to the circuits. of the courts and their officers. A district.

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is a portion of a county entitled to a court of general sessions of the peace. A township has no prescribed size, nor is it endowed with any corporate powers, except that most of them have the privilege of choosing representatives, and of voting money for the support of their poor. The population in 1827, according to the census of that year, was 153,848, of which number 30,000 were in Cape Breton. The population has been rapidly increasing for several years, and, at the present time, doubtless, greatly exceeds the above enumeration. The means of subsistence are easy; the price of labor is high; the climate is healthy; and there are supposed to be as many as seven children to each marriage. A majority of the present inhabitants are natives, who are descendants of emigrants from Great Britain and the U. States. In the eastern parts, there are many Scotchmen. There are no slaves. The face of the country is agreeably diversified with hills and dales; much of it is undulating, but there is no mountain more than 600 feet high. The ridges of land generally run north and south, and sometimes terminate in abrupt cliffs on the sea-shore. The appearance of the seacoast is generally inhospitable, presenting a bold, rocky shore, and a poor and sterile soil, clothed with a thin and stinted growth of birch and spruce. The teatures of the northern coast, however, are far more pleasant. The shores are every where indeated with harbors, rivers, coves and bays; and these have a ready communication with the waters of the interior of the country, scarcely any part of which is more than thirty miles distant from navi-There is a great inequality in the surface of Nova Scotia; much of the land lies in broken ridges; and the country abounds with small lakes and short rivers. Lake Rossignol, a little to the westward of Liverpool, is said to be thirty miles in circumference. There are many bogs, but they are small. The arable lands of the country, as yet, bear but a small proportion to the wilderness; they are chiefly confined to the borders of rivers and harbors; but there are extensive tracts of excellent land which have not been cleared. About one sixth of the land is supposed to be incapable of cultivation. The average crop of wheat on new land is said to be from seventeen to twenty bushels to the acre, and of rye from nineteen to twentytwo bushels. In many parts, much larger crops of wheat are ruised; but a good crop of rye, Indian corn, barley, buckwheat, or oats, is much more certain to be

obtained, by proper culture. The soil or Nova Scotia produces potatoes of better quality than are, as yet, obtained in any other part of America. The average crop is two hundred bushels to an acre. Extensive strata of excellent bituminous coal are found in many places. The best that have been discovered are those of Picton and Cumberland. Great quantities of coal are also found in Cape Breton, and it constitutes an important article of export. For several years, the annual export from this island has averaged 8500 chaldrons. Gypsum, also, is abundant, both in the peninsula and in Cape Breton. The largest towns of Nova Scotia are Halifax. Liverpool, Lunenburg, Annapolis, Barrington, Pictou, Argyle and Windsor. Many others are rapidly growing into importance. The principal articles of export from Nova Scotia are dry fish, pickled fish, flour, potatoes, and gypsum. The exports of pickled fish, for the year 1828, amounted to 41,682 barrels, with a few tierces and half-barrels. The amount of dry fish for the same year was 174,017 quintals; and the amount of flour 26,721 barrels. Nearly 100,000 tons of gypsum are annually exported to the U. States. The vessels built during 1828 amounted to 6147 tons. The exports from Cape Breton in 1823 were as follows: - dry fish, 41,660 quintals; pickled fish, 18,000 barrels; coals, 10,000 chaldrons; potatoes, 12,000 bushels; oats, 5,000 bushels; live stock, 700 head; train-oil, 2209 barrels, The registered vessels belonging to the island were 340. Most of them were small, and were employed in the coasting and jearrying trade. Small shallops, schobners, and boats, are not registered. Of these about 700 or 800 were cmployed in the fishing business. The most numerous religious sect in Nova Scotia is the Presbyterian. Episcopalians, Roman Catholics, Baptists and Methodists are also numerous. There is a university at Windsor, a grammar-school at Halifax, and academies are established at Picton and Annapolis. Provision is made by the legislature for assisting the poor in supporting common schools; and the sum of £4000 is annually devoted to this purpose. The number of the militia of Nova Scotia in 1828 was 21,897.—The province of . . Nova Scotia is immediately dependent on the crown of Great Britain. The king appoints its governor and officers of state. and the colonists elect their representatives. The "captain-general, governor and commander-in-chief" of the British colonies resides in Canada. The govern-

ors of the several provinces are styled lieutenant-governors. The legislature consists of a council, or upper house, and a house of assembly. The council consists of twelve members, who are named in the governor's instructions, or are appointed by him. The members of the house of assembly are elected for the term of seven years. Nova Scotia was discovered by John Cabot, in 1497, and was probably the first land discovered on the continent of North America. It was first settled by the French, and called Acadia. 1621, it was granted by James I to Sir W. Alexander, and named Nova Scotia; but, in 1632, by the treaty of St. Germains, it was restored to France. Subsequently, it several times changed its masters, and was the scene of many troubles and conflicts; and the country was not established in the quiet possession of the British government until the capture of Louisburg, in 1758. At the peace of 1763, the boundaries of this colony were so defined as to include New Brunswick; but a separation was afterwards made, by which the bresent boundaries were established. -See Haliburton's Historical and Statistical Account of Nova Scotia (Halifax, 1829.)

Nova Zembla (Novaia Zemlja, i. c. new NOVA ZEMBLA (Norther zemu), i.e. new land); the name of two large islands in the Northern ocean, separated by Matotshuoi straits, and belonging to the Russan government of Archangel; lat. 70° A7 to 77°, N.; lon. 47° 45′ to 77°, 20′ E. A square miles 94,10°. The Waigatz islands, to the south of Nova Zembla, are separated from the continent by the strait of the same name. The country is uninhal ited, but is visited by Russian hunters and tishermen, some of whom pass the winter here. The reindeer, Aictic fox, crining and white bear are the principal quadrupeds. Water fowl, whales, seals, and various species of fish, abound. Dwarf-willows and some shrubs are found; moss and a short grass cover the ground in some places; but a great portion of the country consists of sterile rocks or sands. In the southern part, the sun disappears November 8, and does not rise again till the end of January. The twilight, however, continues about a fortnight, and the dreary horrors of these · long nights are somewhat relieved by the northern lights. (See Aurora Borealis.) In general, the snow begins to fall in September, and lies till late in June, and in many places all the year round. In 1807, a Russian expedition was sent to examine a part of the coast, where silver was said to have been found; but no traces of it

could be discovered. In 1819-22, the government caused the island to be explored

Novel (from the Italian novella, a tale, news; though novella signifies, in Italian, something quite different from the English novel, which is called, in Italian, romanzo). The English nomenclature for works of fiction is not very complete. The seme word tale must be used to designate the Italian novella (German Novelle) and the Italian conto (German Mahrchen). No department of works of imagination has been so much cultivated as the govel. Their varieties are immunerable : /rom that form in which a series of hytorical occurrences is bound together by a very slight web of fiction, to the moastrous products of a distorted imagination. The novel is of a kindred character with the proper cpic and the narrative idyl. It begins to be cultivated when the poetical. age (par excellence) is passed, and man becomes engrossed with reality, and disposed to substitute minute description of the multiplied relations which have spring up in society, in the room of the creations of his own imagination. Hence slow and accurate, levèlopement becomes its charaeter, prose its necessary form; and hence the resolility of immense variety. As a work of art, however, it must always form a barmonious whole. In the novel, reflection prevails much more than in other poerical productions, because, the language being prose, and the whole form of the work comparatively unrestrained. allow it, and the advanced period of society to which it belongs requires it. "In the novel," say: Gothe, in his Wilhelm Meister (third volume), "sentiments and events are to be chiefly represented; in the drama, character and actions. hero of the novel must be passive, at least not in a high degree active; we expect of the dramatic hero action. Grandison, Clarissa, Pamela, the Vicar of Wakefield, Tom Jones, are, if not passive, yet retarding persons. In the drama, every thing. resists the hero, and he overcomes the hinderances or succumbs." The field of the novel, however, is so great, that it seems to us these limits will not be observed in all cases. The intercourse of the different parts of the civilized world has become so great and rapid, and, consequently, their interest in each other so lively, that a kind of novels has become popular, belonging, like newspapers, to the peculiarities of our time. In fact, they are near akin to newspapers, being merely destined to give a superficial view

of the temporary condition of foreign countries, with more connexion and minuteness than is practicable in the daily gazettes. These novels appear, are read, and are forgotten, like newspapers. As to historical novels,* in which the English have so far outstripped every other nation (partly, perhaps, because their history is kept continually before them, from its connexion with the never-ending succession of constitutional questions), we are far from condemning them as an incongruous mixture of fiction and fact. They serve to give some idea of past events to people who would shrink from toilsome research; and; though this sort of knowledge is altogether insufficient for the wants of a sober inquirer into the past condition of men, it furnishes a better occupation for the crowd of readers for entertainment than mere works of fiction. It is the product of a manly nation, and has become popular in an age when people wish for something more substantial than the billing of lovers. The Greeks, who developed with such astonishing rapidity almost every branch of poetry, have left hardly any trace of the novel. If we do not consider Xenophon's picture of the education of a prince, in his Cyropædia, as a novel, the first production of this sort in the Greek language is the Milesian Tales, the product of a time when the Greek character was extinct: and to judge from the pastoral piece of Longus, on the loves of Daphnis and Chloe, we can hardly conceive of any thing more flat, and full of vulgar sen-(See Heyne's Critique of the suality. Greek Novels, in his German translation of Chardon.) Still fewer traces of this kind of composition are found with the Romans, who stood far behind the Greeks in the fine arts and poetry. The time of chivalry produced many distinguished works of fiction, but they are not what we now expect a novel to be. (See Troubadoves.) The masterpiece of Miguel Cervantes-Don Quirote de la Manchawhich attacks the inflated romances of

* Towards the end of the seventeenth century and the beginning of the eighteenth, it was customary to relate, in the form of a novel, the secret history of German courts, 'giving to the persons names taken from ancient history. The voluminous works of duke Anthony Ulrich of Brunswick, particularly his Octavia, much diffused the taste for this kind of productions. Of this species is also *Fredegunda*, published from a French manuscript, at Berlin, in 1825. Fredegunda is Sophia Dorothea, wife to the electoral prince of Hanover, George Louis; at a later period, George I of Bagland. In the novel Octavia this unfortunate princess is called *Solane*.

chivalry with such exquisite irony of description, forms the connecting link between them and the modern novel. (See Romances.) The modern novel was not developed before the eighteenth century, and to the British is due the honor of having led the way. Samuel Richardson appeared with his Pamela, followed by Clarissa, so universally celebrated. Grandison he strove to reach the highest perfection, but fell below his former productions. But Richardson had too much a single object in view, and therefore failed to produce a true picture of life. His heroes are personified virtue or vice. Richardson's novels are of the grave kind. Fielding's are humorous representations of familiar life. His Tom Jones, Amelia. and Joseph Andrews, display much knowledge of the human heart, and, as works of art, stand much higher than Richardson's. Sterne has shown incomparable humor in his Life and Opinions of Tristram Shandy and his Sentimental Jeurney, though he has borrowed much from Rabelais. Goldsmith's Vicar of Wakefield is the model of a picture of The English novel then domestic life. declined, until, in modern times, it was revived with such splendor by Miss Edgeworth and Sir Walter Scott. Our own Cooper, too, is well known in Europe. The French excel in light, playful tales. Lesago's Gil Blas de Santillane, and his Esteranille Gonzalez, particularly the first, are highly distinguished. Voltaire's Candide, Zadig, Micromegas, &c., are lively sketches, but can hardly be called novels. Marmontel has the merit of a spirited ease and grace; but Arnand's and Florian's works are little more than books from which we may learn a fluent and casy French. Rousseau, in his *Ulloise*, as in his Emile, is, after all, something totally different from a novel writer; be is a philosopher, but his philosophy is not such as recommends itself to the present time. As to the Heloise, much of its merit, we think, lies in the passages which, thought written in prose, are, in fact, of a lyrical Madame de Genlis, Mudame character. Cottin, and, before all, the great genius Madame de Stack have contributed to the fame of French literature, the latter shining, in her Corinne and Delphine, as one of the first class of writers. The historical novel has, of late, also found several successful imitators in France, as well as in Germany, in both which countries, all the novels of Scott, most of Cooper, and many others, have been translated. Italy and Spain have produced little in the way

of novels, though the tale (novella) flour- land's novels certainly show the genius of ished so early and brilliantly in the for-. The first modern attempt at an-Italian novel has been made by Manzoni. (q. v.) No nation, probably, has been more productive in novels than the German; their number is immense, their The separation of the character peculiar. German man of letters from practical life, and the want of a national life, in which characters may develope themselves, are the causes both of the general failure of German novels in depicting men in their various situations, and of a want of manliness, to which we have alluded already in other places. Their descriptions sink not seldoin almost to childishness, and, though there is, in the novels of several authors, matter enough for admiration, as, for instance, in Jean Paul, the excellences are not those which properly belong to a novel. His men are not men. A comparison might be made in some points between Gothe and If the latter, in some cases, detains the reader too long with a historical introduction, almost uncounting to a scientific dissertation, the former detains us, at the beginning of his *Meister*, with a prolix description of pucrilities which few readers would wade through, did not the celebrated name of its author warrant a recompense in the sequel. Gothe's novels are, in their kind, some of the best ever written. In the seventeenth century, after the period of romances had gone by, novels appeared in Germany like Ziegler's Alsiatische Bunisc, or Lohenstein's Amini-us; and, in France, those of Mademericelle Sendéri—portentous productions, in 42–12 vols., prolix, formal and tedious. A petter taste was awakened in the middle of the eighteenth century, by Richardson's nov-After this period followed novels in which Stark and Lafontaine produced much. Hippel wrote some works of humor. Schlegel, Tack, Novalis (see Hardenberg, Frederic). Wagner, Jean Paul, Göthe, followed. Some of their productions, though in general excellent, are infeeted with a kind of mysticism, which nobody seems to understand but the author, if he. There is one writer who stands almost alone among German novelists-we mean Heinse, whose Ardinghello is distinguished for its vigor and voluptuous glow, and, though far from being commendable in a moral point of view, is unsurpassed in its department. Thummel's works show much knowledge of life and character, though the tone is such that is not every reader who will acknowledge that he has read him. Wie-

their author, but his Agathon has probably excited much more sensuality than he The novels still prohas conquered. duced in Germany are very numerous, as the catalogue of the Leipsic book fairannually shows; but whether it were better for most of them "to be or not to be, that is the question."

Novels, in law, are those decrees of the Greek emperors which appeared after the official collection, in the Codex repetite Productionis, since the year 534 A.D. Of Justinian 160 are known, of which but 97 have the force of law, because these only were commented upon by the first commentators of the Roman law. The novels of the emperor Leo have no authority.

November (from novem, nine); the ninth month of the Roman year, which began in March. (See Calendar, and

Epoch.)

Novemer, John George, the reformer of the art of dancing in Europe, was born at Paris, in 1727. · His father was an adjutant in the army of Charles XII, and he was destined for the military profession; but his taste led him to prefer dancing to fighting, and he became the pupil of the ramous dancer Dupré. After attracting the notice of royalty in his own country, he went to Berlin, where he was equally well received. He returned to France in 1746, and composed for the comic opera his noted Chinese ballet, which made no extraordinary sensation. He afterwards produced other pieces of the same kind, and acquired so much celebrity, that Garrick invited bin to England, where his talents attracted great admiration. turning to France, he published, in 1760, Lettres sur la Danse, in which he started some new ideas, and proposed a radical reformation of his art. He afterwards became master of the revels to the duke of . Wurtemberg, with whom he continued some years, and then held a similar office at Vienna. He went to Milan on the marriage of the arch-duke Ferdinand, and also visited the courts of Naples and Lisbon, where his merit was rewarded with the cross of the order of Christ. After a second journey to London, Noverre entered into the service of Marie Antoinette, queen of France, who appointed him chief ballet-master of the royal academy of music. He suffered greatly at the revolution. and passed the later years of his life in indifferent circumstances. His death tookplace in November, 1810. He published. in 1807, a new and enlarged edition of his

Danse en particulier (2 vols., 8vo.); and at the time of his death, he was engaged on a dictionary of the art of dancing, intended to rectify the errors of the Ency- the other liqueurs. (See Liqueur.)

clopédie on that subject.

Noveorod (properly Nowgorod, or Nowgorod-Weliki); a city of European Russia, capital of a government of the same name, situated on the Wolchow, at its efflux from lake Ilmen; lat. 58° 31' N.; lon. 31° 167 E.; population, 10,000. In the earlier periods of the middle ages, Nowgorod was the centre of the commerce of the Hansa (q. v.) and the Normans with Western Asia and the Byzantine empire. In the fifteenth century, it contained a population of 400,000; and its magniticence, wealth and power gave rise to the proverb, " Who can stand against God and Nowgorod?" It still possesses marks of its ancient grandeur, among which are its sixty-two churches, with their gilt towers, and the ancient fortifications. In the cathedral of St. Catharine are the celebrated Chersonese gates, with inscriptions, &c., and the Swedish gates. Novgorod was conquered by the grand-tlukes of Russia towards the close of the fifteenth cen-

Novice, and Novertyte. A novice is a candidate, of either sex, for a religious order; and noviliate is the time in which the novice makes trial of a monastic life, before taking the final yows. The Catholie church has always prescribed strict rules for the trial of novices, and the council of Trent charges the bishops to watch over the execution of these rules. The novitiate is generally very severe. The novice has to learn the regulations of the order, and, generally, to perform likewise many menial offices about the convent, and to give account of the most trifling actions to the master of the novices. All orders are not equal in their severity. The object of this harsh treatment-viz. that the monastic vows, if taken at all, may be taken voluntarily—is frequently frustrated by families compelling some of their members to embrace the monastic life, however reluctant they may be. .

Novx; Sclavonic for new; e. g. Novy-

grad (new town). .

Nox; a Roman deity. (See Night.)

NOVAU; a cordial. The word is French, and the term is derived from the use of the kernels of apricots, nectarines and peaches, in flavoring it. The use of them in too large quantities has sometimes made the liquor poisonous, as prussic acid may be extracted from them. The other iu-

Lettres sur les Arts imitateurs, et sur la gredients in the liquor are French braudy, prunes, celery, bitter almonds, a little essence of orange-peel and essence of lemou-peel, and rose-water. It is used like

> NUBIA; an extensive country of Africa, bordering on the Red sea to the cast, Nigritia (q. v.) to the west, Abyssinia on the south, and Egypt on the north. It lies between north latitude 13° and 24°, and castlongitude 28° and 30°, containing a superficial area of about 360,000 square miles, and divided into a great number of kingdoms, of which the principal are Semant It is intersected by the and Dongola. Nile (q. v.), which here receives the Tacazze, and forms the celebrated peninsula of Meroë. (See *Meroë*.) In the northern part of the country there are extensive deserts, in which roam nomadic tribes, who lie in wait for the caravans. The valley of the Nile contains the largest part of the population, and is fertile. The climate in general is excessively hot, but in the eastern parts is more moderate. Among the animals are elephants, horses, camels, civet-cats, giraffes, lions, tigers, hyarnas, hippophannuses, crocodiles, os-Sennal leaves, chony, sandalwood, bamboo, glum, corn, tobacco, sugar, rice, tef (a kind of millet, used for making bread), &c., are among the vegetable productions. Gold is found in mines, and in the river sands. The principal article of traffic is slaves, which are imported from the central parts of Africa to the number of about 5000 annually, and exported chiefly to Arabia and Egypt. Dates, gams and detrich feathers are also exported. The bopulation is small in proportion to the extent of the country: it is chiefly composed of tribes of Arabian descent. The Nubians are perfectly black, and have the thick lips, but not the flat nose, nor the prominent jaws, of the negro race. They are well made, and have a pleasing expression of countenance; they are temperate, but not very industrious. They are chiefly Mohammedans. Only the northern part of the country and the coast of Habesh, or New Arabia, is subject to the Turks. The separate kingdoms are governed by independent chiefs, called malek. (See Sennaar.) Nubla is the northern part of the Ethiopia of the ancients. who placed in it the Nofintes, the Blemmyes, the Troglodytes, and other tribes? Mohammed Ali (q. v.) sent an expedition to Nubia under his son Ismael, in 1821. for the purpose of discoveling gold mines, destroying the remnants of the marnelukes. and procuring a supply of negroes. This

north, but was then forced to retreat. Cailland (q. v.), who accompanied the expedition, has written an account of the country.—See Burckhard's Travels in Nubia; Gau's Newly Discovered Monuments of Abussinia; Riffaud's Voyage, &c. (5 vols.,

with 300 plates, Paris, 1831).

Numery, in the fine arts; the naked state of the human body, to study which is equally important for the sculptor and the painter, because, though the latter comparatively seldom represents the human body entirely without covering yet the appearance of the covering is determined by the structure of the frame. The reason why sculpture represents the taked figure so much more than painting, is because it can speak to the mind only through the form, while painting has the advantage of colors, which, conveying a lively idea of reality, compel the concealment of much of the body, and, in fact, afford the artist sufficient means of expression without such an exposure.

Nuestra Senora, and Senuora (Spanish and Portuguese for Our Lady); the beginning of numerous geographical names; for instance, Nuestra Señora de

los Remedios de Pueblo Nuevo.

NUEVO (Spanish for new) appears in

many geographical names.

NUIBANCE. Nuisances are either common, by which the public in general are incommoded, or *private*, and affecting particular individuals. Of the former class are all obstructions of the public highways, as by putting up a gate across the road; placing a person in the street of a thronged city to distribute handleds of one's trade, whereby a crowd is collected; keeping a stage-coach in the street an unreasonable time for taking in and discharging passengers or freight; occupying a side of the street, for loading and unloading wagons a great part of the day, though it be at the warehouse of the person who employs the wagons, and though there be sufficient room for two wagons to pass each other on the other side of the street; or occupying the street for the purpose of sawing timber, though it is done that the timber may be taken into an adjoining yard. But taking down a building, and putting up, instead of it, a higher one, whereby the street is darkened, is not a common nuisance. Obstructing a navigable river, which is but another highway, is a common huisance, as by mooring a barge across it erecting a bridge, or sinking any obstruction in the channel. where a vessél was sunk in a river by ac-

force penetrated as far as ten degrees cident, it was held, in one case, that the owner did not, by neglecting to raise and remove it, render himself liable to indictment for a common nuisance, though the navigation was in some degree obstructed. A neglect may be the occasion of a nuisance of this description, as well as a positive act, as where a person neglected to clear the channel of a river on his own grounds, and it was thereby made to flow back. But such a neglect would not, in all cases, be a nuisance, either common or private, since it cannot, in general, be presumed to be the duty of all proprietors on the banks of a river to keep the channel free through their lands. Tunnults and free through their lands. annoying sounds are another species of common nuisance; and a common scold, by perpetually disturbing the public, becomes liable to indictment and punishment therefor. Poisoning streams is an offence of this description; and so also is the occasioning noisome smells, to the public inconvenience. Common nuisances are punishable at the suit of the public, by indictment. Private muisances are similar in kind, but are annovances to only a few, and the persons who suffer may have an action on the case against the person who occasions them. Another remedy, both against common and private quisances, is the right that every person incommoded by them has to abate or re-move them. Thus if one wishes to pass along a street which another has encumbered by some nuisance, he is not obliged to wait to indict the party offending before he can pass, but he has a right to remove it, provided he does so without making any riot or annult. And so if a person unlawfully builds a dam across a stream, whereby the water is made to flow back upon his neighbor's land, the proprietor of the land overflowed may agoupon another. person's land, without trumth, force or riot, and remove the obstruction; but he must be certain that the dan is a nuisance, before he ventures upon such a Erecting a smelting-house near to one's land, whereby the grass and herbage are destroyed, has been held to be a nuisance. So is turning water towards one's house, so that it runs into I is cellar. So is creeting a bridge, or setting up a ferry, very near to another bridge or ferry, so as to take away tolls. So a sesspool, tallow-furnace, place for keeping swine, lime-kiln, brew-house, tannery, and glasshouse, have been held to be nuisances, in particular instances, where they were placed too near dwelling-houses. In one instance, in England, a blacksmith's shop,

of which a neighbor complained, as keeping him awake during the night by the hammering, was held to be a private misance, though the blacksmith alleged, in defence, that he did not work at unscasonable hours. A pigeon-house, or dove-cote, is not a misance. In case of complaint by a lawyer against a school kept near to his office, as disturbing him in his studies, the school was held to be no misance.

NULTITY, in the law of continental Farope, is the entire invalidity of a legal proceeding, or legal instrument. It is distinguished from mere incorrectness, which may be remedied, while this defeats the whole process. The declaration of nullity is most frequent in the French civil and criminal law; and the court of cassation (q. v.) is appropriated exclusively to the trial of cases relating to this point. The corresponding process in England is called a writ of error. In Germany, it was provided, in '1654, that the complaint of nullity should be brought only in case of incorable defects, and within thirty years.

NUMANTIA, a town in that part of Spain called by the Romans Hispania Turraconensis, is celebrated for its desperate resistance to the Roman power. The natives of Spain had continued the struggle even after the fall of Carthage, and Viriathus (q. v.) had endeavored to organize a general insurrection of the Spanish tribes. The plan failed; and, while the greatest part of the Celtiberians (q. v.) returned to submission, the Numantians, who belonged to the Celtiberian tribe Arevaci, determined to hold out. The position of Numantia on a steep height on the Douro (Duero), at the confluence of the Punto, allowed an attack only on one side, which was strengthened by art. The first attempt of the Roman forces under the command of the prator Pompeius Aulus (A. U. 616), was unsuccessful, and attended with great loss. Yet more disgraceful was the failure of the consul Hostilius Mancinus (617), who was compelled to capitulate on terms which the senate refused to ratify. The commanders who succeeded avoided coming to an engage-ment with the brave Numantians, who amounted only to 8000 men capable of bearing arms. Scipio Africanus the younger, the destroyer of Carthage, was finally sent against them; with a force of 60,000 men. He determined to reduce the place by famine, and, having cut them off from all supplies, compelled the remnant to yield. Many of them, however, killed their wives and children and them-

selves, or threw themselves into the flames. Thus fell Numantia, which had resisted the arms of Rome for fourteen years, after a siege of fourteen months (621 Å. U., 123 B. C.). The town was destroyed by the conqueror. Soria (6000 inhaltants) is supposed to be on the site of the swinger Numantia.

to be on the site of the aucient Numantia. NUMA POMPILIUS, the second king of Rome, reigned from 714 to 67% B. C. (or from the thirty-ninth to the eighty-first year after the building of the city). He was the fourth son of Pompilius Pompo, a distinguished Sabine, and the Imsband of Tatia, the daughter of the Tatius who, for a long period, shared the kingdom with Romulus. After he had lived with her as a private individual in his native place for thirteen years, he retired, upon her death, to the country, where he led a secluded life, till he was called by the Romans from his retirement to the throne. Numa was not, like Romulus, a warrior, but possessed all the qualities of a lawgiv-er and a just and wise ruler. He greatly strengthened the civil institutions of Rome, by uniting them with release 1 acres of the poraries, by the gone for most be be detected an bring had Cancillate of Cod othered dier. The clis father was the father wards of appointed visities, after the branch optain-genera. The establish by articles, that the 1796, by the title of mannet of release with uncommon success for terrory the Don Bernardo first bestrengthened the civil institutions of Rome. the die coy the Don Bernardo use for terfor he shed in the Chilean revolufor the sheat in the comments of the Carreras. is, if captain of militia, and reman . salfof lieutenant-colonel of the The Jne;erwards of brigadier-genefirst > to the important services in the command of 1813, the Carrerus there by the Spaniards, lates; grov. selic to n? ¿ while army devolved on they les officer, and he avail-He L cenes prortunity to assume the marria decision, posture the mother with the carreras, how-of Roberiero and ir liberty, and com-Numu con-

NUMBERAS (See Nortation under them. NUMBERATOR OF A FIRATOR, fought Octor which stands aboute Chileans were shown how many parts if Higgins, Rodrigists of, as the denominate patriots crossed number of parts into wrefuge in Buonos supposed to be divided. Int of the latter

NUMISMATICS is the nt their own safeence which has for its objain of the Spancoins and medals, principally assembled a

death took place Oct. 23, 1730; and her corpse, after lying in state, was interred in Westminster abbev.

OLD MAN OF THE MOUNTAINS, (See Aloadin.)

(See Calendar, vol. ii. OLD STYLE. page 403.)

OLEARIUS, Adam (properly Œlschläger), born about 1600, at Aschersleben, in Halberstadt, after finishing his studies at Leipsic, went to Holstein, and became mathematician and librarian to the duke of Holstein-Gottorn. In 1633, he was attached to a legation to Moscow, and, in 1635, to a second legation to Russia and After his return in 1639, Oleanius published an account of his travels (Neue orientalische Reisebeschreibung, Sleswic, 41647; often reprinted), with translations of the Gulistan of the Persian poet Saadi, and of the fables of Lokman. In 1651, he was received into the Fruit-bearing Society, under the name of Wherthmte (much famed), and died in 167's.

OLEFIANT GAS Was discovered at Hoorlem, in 1796, by the associated Dutch. chemists, and received its present name from its property of giving rise to a substance resembling oil, when iningled with chlorine (oleum fio). It is sometimes called bi-carburcted, or per-carbureted hydrogen, and hydroguret of carbon. It is prepared by mixing in a capacious retort six

ares of strong alcohol with sixteen abifeentrated sulphuric acid, or one neasure of common alcohol and three of ordinary oil of vitriol, and heating the mixture over an argand lamp. The acid soon acts upon the alcohol; effervescence ensues, and oleflant gas pusses over. At the commencement of the process, the olefiant gas is mixed with a little ether; but in a short time the solution becomes dark, the formation of ether declines, and the odor of sulphurous acid begins to be perceptible; and towards the close of the operation, hough olefiant gas is still the chief product, sulphurous acid is freely disengaged, some carbonic acid is turmed, and charcoal in large quantities deficied. The olefiant gas is collected over the order. The greater part of the ether than the collected over denses spontaneously; and the sulfar rous and carbonic acids may be separated by washing the gas with lime-water or potash. The olefiant gas, in this process, is derived solely from the alcohol; and its production is owing to the strong affinity of sulphuric acid for water. Alcohol is composed of carbon, hydrogen and oxygen; and from the proportion of its elements it. greaeful Louisiana, Florida, and on the soa-

connected with general Churchill. Her is inferred to remonies. The perfect Lusdeath took place Oct. 23, 1730; and her parts, or one expodies with the shades of parts, or one embodies with a dive-green, and water. It is drafty use ite; transparent or obtain olefant is not of the between that of obtain olefiant i out of water which is cipal. Specific gravity 3.44. and this is eight description the char-Olefiant gas in the chart which has no truct that therefore plite (q. v.) agree in . which has no trients of Gt; and therefore when pure. It spon preent, conceived able to support Typhic able to support Typinic and is set on in the part of t ricties have been . spark, and white the spark is the assumes a spark, and white the spark is the assumes a spark in about the spark in vnperatig Fare ic original lo-Carbon, Hydrogen wn; the roll als are said,
When oleffor gome from Upper Egypt, rine for the prope thy brought to Farope by the former to twantinople. Less distinct a minere whichbridded grains, are found proach of flam ous kinds of basalt. &c., idly, with formatin or hood of Vesuvius, in and deposition of the Silesia, Hungary, &c. coal. But if the tgo spheroidal masses, remain at rest after at les, mixed with augite, very d'flerent acticeon: duff, at Kapfenstein, instead of decomps as in Hessia. It is used ters into dire t con, it plue. yellow liquid, likeed north ofte dish of the substance is sometic that it is less likinds of but the term hydro-ldenness of cold r The indicative of its con is injurious; for it 9. propriate.. To obtain to endure very sedry so te, it should be to be destroyed by the water, and then distill on after the sap las calcium. As the puence it would seem less, volatile liquid at mother variable climate taste and etheres and entered in weastance of partial 1.2201. It bolds to be distilled within the Greeks formed a sition is the control of the co Oned, been uncleased office of the trees were ren-From an a real arleston, the trees were ren-Silling by the vernal flosts, which Silling by the vernal trosts, which solubly a the young shoots. It is probable out their culture would succeed in Clorida and on the son-

een led to atthis otherized. l way, in which .'he following is copper still put of lime and two ice gravity .844. wess, and when ne highly sweet cork it up closeemainder of the off for a new opf ethereal spirit So far as the eflant have been gularly grateful, ach, producing unimal spirits, ttion, little of o the use of unites also it to the vapor ys of the sun. e thus formed e body, which natic odor. It

or one proportion. tine is also formed hydrocarburet of omine, contained ataneous reaction 'isengagement of e; and two comof iodine and a bromine, are genter being washed tash, is colorless, y volatile, of a penand an exceedingly imparts to water. o formed by letting Il into a flask full of

r one proportin;

hen potash and hog's the margarate of the the form of a pearlyle the fluid fat remains ned with the potash. separated by tartaric of fat is obtained, ifying it again three times, he margathe propıning yeu-.cid. It is

7.52 of magnesia, 14.83 of zinc, and 13.93 of peroxide of copper.

OLERON LAWS; laws relating to maritime affairs, and so called because made by king Richard I, when at the isle of Oleron, in Aquitaine, 1800 Commercial

OLIBANUM. (See Frankincense.)

OLIGARCHY (from allyon, few, and days); that species of aristocracy where the supreme power rests with a few individuals the worst of all governments.

OLIVA; a Cistercian abbey, not far from Dantzic, memorable for the peace concluded there, May 3, 1660, which terminated the war between Sweden, Poland, the emperor and Brandenburg. John Casimir, king of Poland, renounced his claims on Sweden; Sweden renounced Courland; both power acknowledged the independence of Prussia In consequence of this, Sweden restored Drontheim and Bornholm to Denmark by the peace of Copenhagen, May 27, 1660, and concluded the peace of Kardis (1661) with Russia. The peace of Oliva is important because it laid the foundation of the subsequent political relations of the north of Europe.—See J. Gottlob Böhme's Acta Pacis Olivensis inedita (Breslau, 1763).

and 1765, 4to.). OLIVAREZ, Gusparo de Guzman, count of, duke of Sanlucar, was born at Rome (where his father was ambassador to pope Sixtus V), of a distinguished Spanish family. The house in which he came into the world was on the site of Nero's paluce-a circumstance which gave rise to a comparison of his inflexible severity with the barbarities of that emperor. His father was suspected of having poisoned the pope. If this were the case, he was but. poorly rewarded by his court, since his means were so limited that he was hardly able to educate his son at the university. The ambitious youth, however, insinuated himself into the favor of Philip IV, of whose amours he was the confident. The favorite soon supplanted the duke of Uze. da, as prime minister, and, for twenty two years, his power was almost unlimit-The beginning of his administration was marked by measures of public utility; but his sole object soon became the extortion of money from the subjects to supply. the expenses of the war with the neighboring powers. His severity occasioned revolts in Catalonia and Andalusia. The

Portuguese, disgusted by his government, threw off the Spanish yoke, and acknowledged the duke of Braganzi king, in 1640.

Olivarez communicated the intelligence;

nell; spea common the undersong across it defer the latter, ng any obstructus of History of bleic acid of soda, of this event to the king, as a subject of

lieu (q. v.), he might have perhaps succeeded in retrieving affairs. He would probably have been recalled, had he not written an apology for his measures, by which he offended several powerful individuals, in consequence of which the king found it expedient to confine him at Tore, where he died in 1645.

OLIVE (olea, Europea). This interesting tree, in the more northern districts. does not usually attain a greater height than eighteen or twenty feet, with a trunk one or two feet in diameter; but in warmer climates, it rises to the elevation of forty or fifty feet. It grows slowly, and is very long-lived. Notwithstanding the name, it is not a native of Europe; but it has been so long cultivated on the borders of the Mediterranean, that the period of its introduction from Asia is utterly unknown. In its general appearance, the olive tree bears some resemblance to the willow, but it possesses very little beauty. As in the other species of the genus, the leaves are evergreen and entire; they are opposite, lanccolate, from one to two and a half inches long, and their inferior surface is covered with a scaly powder, which gives the in a silvery appearance. The flowers are small, white, and are disposed in branching, axillary racemes; the corolla is monopetalous, surrounding two stamens and a single style. The fruit is an evoid and more or less clongated drupe, with a thin, smooth and usually blackish skin, containing a greenish, soft pulp, adherent to a rough, oblong and very hard stone; it is almost the only example of a fruit Like other plants with an oily pulp." which have been long cultivated, a great number of varieties have arisen, from the influence of soil, exposure, and especially of different modes of cultivation. The olive was celebrated in the mythology of the ancients; olive wreaths were used to By the crosvn the brows of victors. Greeks and Romans it was revered, and was considered the emblem of peace and humility. It furnished that oil which, for a long time, was the only kind known, and which was employed by most nations Lower Louisiana, Florida, and on the soa-. vor. 14. . . . 33

congratulation, since it justified the confiscation of the enormous possessions of the duke in Spain. The war, however, was so fatal to Spain, whose armies were destroyed by the Prench, and whose fleets were destroyed by the Dutch, that the king was finally compolled by the public discontent to dismiss his minister. (See Spain.) Olivarez was thus forced to retire from the stage, at the moment when, delivered from his formidable rival, Richelieu (a. v.) he might have merhand many and the tasto is verywhic. large quantities the p buare crystallized. Ro Pare colors and soap; and, in the it is it is burnt in lamps atterious asperity to be expected h ciry. According firu species has the asperity to be educated literature capt in one of the two incidence of the continuous and incidence of the globe.

The sum of the continuous co itsa 🔭 some islands in thy brought to Europe by quantities of pitantinople. Less distinct to the market or bedded grains, are found which is obtain ous kinds of basalt, &c., without the use operhood of Vesuvius, in and purest; and to, Silesia, Hungary, &c. of France is now the spheroidal masses, ed. A temperate ales, mixed with augite, essential to the complete, at Kaptenstein, Too much heat is as in Hessia. It is used cold. In Europe, it plue. cessfully cultivated north ofte dish of the but it would seem that it is less it kinds of sity than the suddenness of cold r-The mild weather, that is injurious; for ine; trees have been known to endure very se-vere cold, and again to be destroyed by an ordinary frost cory on after the sap Las begun to ascar a fence it would seem to be little. At to the variable climate of the U. S. An instance of partial success to wever, upon record. At an early people, a colony of Greeks formed a settlement of New Section in Particular. settlement at New Smyrna, in East Flori-da, bringing with them the olive from their native country: this settlement was subsequently abandoned, but in the year 1783 there were remaining several large olive trees. At Charleston, the trees were rendered barren by the vernal frosts, which congealed the young shoots. It is probable that their culture would succeed in orgia. The olive grows in woil, provided that it is not ? lanted at intervals of et, as it requires plenty ific of the root, and so was, piece of the bark. ne hig produced shoots cork it orty-two days. It emaindd, or from wild off for a gods, which are The of ethere, variety. So far awho has planted lant have fruit," though gularly ghas arisen from ach, pros growth. The minul of November. tion, li: but the prodo the ry other year. unitic-grained, hard, it to thant polish. Alys of theis too valuable. c thus fol in the arts. ie body, ware knowna natic odor, opposite, or al nall flowers, r one propydies. Among

pr one proportative of Chi-: the flowers rine is also force used by the shydrocarbu perfume their omine, con the leaves, for ataneous r species inhabit-'isengagele O. Americana, e; and b, devil-wood, ac-of iodion account of the broming extremely difficult ter bed. Notwithstanding tash, eglected in the arts. y volulanceolate, coriaceous, ling. The fruit is a globose ment twice as large as a pea, and

ae when ripe. It is a large shrub, or hall tree, sometimes, however, reaching the height of 30 or 35 feet, with a trunk of 10 or 12 inches in diameter. It is a maritime species, and grows in company with the live-oak and cabbage-palm. It is found thinly disseminated along the scacoast, from lat. 37° to Florida, and along the shores of the gulf of Mexico to Louis-

OLIVERITE; an ore of copper. (q. v.) OLIVER, Andrew, lieutenant-governor of Massachusetts, was graduated in 1724, and was early employed in public stations. He was a representative of Boston at the general court, and one of his majesty's council. He was appointed sccretary of the province on the death of the venerable Willard, and held the office until 1771, when he succeeded Mr. Hutchinson as of LL. D. His talents as a writer, both

lieutenant governor. When the stamp act passed the parliament, he was made distributer, which would have been a lucrative office; but he was obliged to resign it is easily multiplied by it by the multitude, who injured his house. in the riot that the act occasioned. His political principles, and fondness for wealth. and power, induced him to pursue a public course similar to that of his brother-inlaw, Mr. Hutchinson, under whose influence he was supposed to have been. He endeavored to promote the designs of the British ministry, as was plainly proved by his letters, which doctor Franklin obtained possession of in England, and sent over to this country. In the same petition, ac-cordingly, which the general court presented to the king for the removal of governor Hutchinson, they begged that he also might be dismissed. tle was then in very ill health, and soon after-wards died (March 3, 1774). His abilities were solid rather than brilliant; his learning was considerable, and his industry indefatigable. In private life he maintained a highly respectable character, and, had his public conduct been patriotic, he would have been an object of universal regard. He wrote well upon theological and political subjects, and some of his productions still remain.

OLIVER, Peter, chief-justice of Massachusetts, was the brother of Andrew, the licutenant-governor, and the younger son of the honorable Daniel Oliver, one of the ting merchants of Boston, who filled various public offices. In 1730, he took his bachelor's degree, at Harvard 'university, and, after being employed in several oftices in the county of Plymouth, which he filled with much credit, he was raised to the supreme bench. His appointment. was, at first, very popular; but he became an object of general odium, when it was known that he had accepted the post after an alteration had been made in the manner of paying the salaries of the judges, which were to be fixed, and to be entirely independent on the legislature of the province—a circumstance which had induced his predecessor, judge Lynde, to resign. Mr. Oliver was impeached, in consequence, by the house of representa-His prejudices against the revolutionary contest were strong; and when the British troops abandoned Boston, he accompanied them, with other loyalists. He repaired to England, where he lived, for some years, on his salary, or a pension from the crown. The university of Oxford conferred on him the honorary title of prose and poetry, were considerable. He was a contributor (as was his brother also) to the Censor—a paper patronised by the tories, and devoted to their interests. On leaving America, he carried away various records and documents relating to the settlement of the country, which he had collected in the true spirit of an Old Colony man. Such was his zeal in that respect, that he even transcribed, with his own hand, all the manuscript history of William Hubbard-a labor which must have been, at least, as irksome as the seven transcripts, made by Demosthenes. of the work of Thucydides.

OLIVES, MOUNT OF; a hill near Jerusalem, from which it is separated by the ralley of Jehoshaphat and the brook Kedron. It is still, as formerly, covered with

olive trees.

OLIVIER, Guillaume Antoine; an eminent French naturalist and traveller, member of the institute and of the agricultural society of Paris. He was born near Frejus, in 1756, and studied at Montpellier, where he received the degree of M. D., at the age of seventeen. Natural history, and especially botany and entomology, were his favorite pursuits; and, at the age of twenty-three, he went to Paris to assist in the composition of a work relative to the natural history of the district in which that metropolis is situated. He was afterwards sent into England and Holland, to collect materials for a general history of insects, and was also employed on the entomological part of the Encyclopédie Méthodique. The revolution having arrested the progress of both these enterprises, 1 Olivier travelled to Persia, together with M. Bru quières, another man of science, on a diplomatic mission, planned by the minister Roland, whose death deprived the envoys of the financial resources and official protection on which they had calculaced. Olivier returned to Paris in December, 1798, after an absence of six years, during which he visited Egypt, Greece, Turkey, Arabia, Persia, and other Eastern countries. He brought home numerous and valuable collections of curious objects of natural history, of which he published an account in his Voyage dans l'Empire Ottoman, l'Egypte, et la Perse (3 vols., 4to., with an atlas and plates). He died at Lyons, in 1814.

, / OLIVINE is found in olive-colored grains. and imperfect crystals, whose primary form is a right rectangular prism. These crystals are rarely found possessed of numerous modifications and of considerable dimensions. The cleavage parallel to the OLYMPIA; a town in ancient Elis (west-· 3 478 11 34 38

buses of the prism is highly perfect. Lus-ire, vitreous; color various shades of tre, vitreous; color various shades of green, as pistachio-green. Aive-green, and grass-green; streak white; transparent or translucent; hardness between that official spar and quartz is specific gravity 3.44. With the foregoing description the characters given of classific (q. v.) agree in every important of the content of the conten called chrysolite which and possessed the plant of pmo colors and a high degree of tisfic to the best andly, it following completed flat species has the Magnesia. nuare crystallized,

Magnesia, awtor letie 50.6
Silica, 5pal let course 40.5
Oxide of iron fire s of 6
Before the bleld res its gine assumes a darker color, before in aim melt, nor lose its transparence 1 1, toge be artificially produced, by mins, source ingredients in the proper phyportically ben texposing them to a high temperattly Eurone original locality of imbedded copularized olivine is not now known; the proper Egypt, and are frequently brought to Europe by and are frequently brought to Europe by way of Constantinople. Less distinct crystals, and imbedded grains, are found in lava, in various kinds of basult, &c., as in the neighborhood of Vesuvius, in Saxony, Bohemia, Silèsia, Hungary, &c. It occurs in large spheroidal masses, which are not pebbles, mixed with augite, in a rock called troptuff, at Kapfenstein, in Lower Stiria, and in Hessia. It is used as a gem of interior value.

OLLA PODRIDA; a favorite dish of the Spaniards, consisting of several kinds of ment cut up and stewed together.-The same name is also given to a vase of odoriferous flowers and herbs. (See Pot pourri.) It is often used, metaphorically, to denote

a medley.

OLMUTZ, or HOLOMAUC; a city of Moravia, with 12,890 inhabitants, situated between two branches of the March, 35 miles N. of Brünn; lat. 49° 32' N.; lon, 17° 9' E. It is surrounded by extensive fortifications, and contains several religious, literary and charitable institutions. It is an archiepiscopal.see. Olmútz was formerly the capital of Moravia, was captured by the Swedes in 1642, and besieged by the Prussians, without success, in 1758. Lafayette was confined, for a long time, in the prisons of the citadel. (See Lafayette.)

Percerinus Procus.) It is now in ruins. The little plain of Antilala, which measures but an English mile and a quarter, from east to west, contains traces of buildl Pouqueville conings, which Fauvel the Hippodrome, sider the remains where the trium, awarded. This li in is bounded on s of the Cladeus; the cast by the stee on the west of t VI lies Miracca; on the north are his a on the south. le valley. Bethe Alpheus surfor », rocky mountween the Typeconhich it reaches. tain—and the Alphe lie the ruins, which those of the Hippo been taken for i though Stanhope does not ackno ice them as such. Towards the south, c and by the Altis, lies the stadium, up low and now nain. Pisa was marshy spot, on the if situated six leagues 1 om Olympia; and, from the agreement of the name of a fountain, near Miracch, called Polistirun, with Polistica, the same of a fountain near Pisa, we appear justified in regarding the fragments of architecture at Miracca as the ruins of Pisa. So few are the remains of that Olympia, where, from the time of Chorcebus, the names of the conquerors were recorded for posterity with the most scrupulous exactness! The statue of Olympian Jupiter is treated of in a work of Siebenkees-(Tübingen, 1795), and in Quatremère de Quincy's Japiter Olympian (Paris, 1816, folio). The diligent investiga-

of Olympia. OLYMPIAD; a period, connected with the celebration of the Olympic games, by which the Greeks computed time. (See Olympic Games.) The Olympiad from which they began to reckon, was, according to Petavius, 777; according to Usher, 772; and according to Calvisius, 774 B. C. Gatterer, and most of the moderns, call it 776. The last Olympiad (the 304th) fell on the 440th year of the Christian era. The interval between two Olympiads was about four of our years, or a Greek tetruetris of 48 moons, and two intercalary months. The Olympiads were first nam- himself, after his victory over the Ti-

tions of the loarned John Spencer Stan-

hone (see his Olympia, Topography illus-

trative of the actual State of the Plain of

Olympia, and of the Rains of the City of Elis, London, 1824, with 16 beautifully engraved plans and views, after designs

by Demint), appear to have thrown some

light upon the field which bears the ruins

real, near the town of Lagganico.) inany errors might arise from this method, where regrinus Proteus burnt himself, especially if there was no opportunity of to show to the threeks a new sight. (See immediately consulting the records at Olympia; therefore, in after times, they were otherwise distinguished: for instance, in Athens, to the name of the conqueror was added the name of the ruling archon; at Lacedemon, the name of the ephori; at Argos, the name of the priestess urland was once of Juno; at Delphi, the name of the Pythia, &c. The records, thus, made and kept under the superintendence of the magistrates, were preserved among the archives of each state, where every one, might consult them. In later times, private persons took copies. Unfortunately, none have remained to us.

OLYMPIAS, a celebrated woman, daugh. ter of Neoptolemus, king of Epirus, married Philip, king of Macedonia, by whom she had Alexander the Great. Her haughtiness, and, more probably, her infidelity, led Philip to repudiate her, and to marry Cleopatra, the niece of king Attalus. The murder of Philip, which soon followed this disgrace, some have attributed to the intrigues of Olympias. Alexander treated her with respect, but did not allow her to take part in the gov crument. Antipater succeeded Alexan der in the government of Macedonia, and, on his own death, left the administration of the country to Polysperchon, who, to confirm his power, recalled Olympias from Epirus, whither she had fled and confided to her the gnardianship of the young son of Alexander. She now cruelly put to death Aridecus, son of Philip. with his wife Eurydice, as also Nicanor, the brother of Cassander, with one hundred leading men of Macedon, who were inimical to her interest. Such barbarities did not long remain unpunished. sander, son of Antipater, besieged her in Pydna, where she had retired with the remains of her family. She was obliged to surrender, after an obstinate siege, and was put to death.

OLYMPIC GAMES. The Olympic games were the most solemn and celebrated amongst the four sacred games of the Greeks, which were national festivals, and closely united the different Greek tribes. The name originated from the consecrated place Olympia, where they were celebrated, or from Jupiter Olympius, who had a famous temple on this spot. The Olympian plain is now called Antilala, being opposite the town of Lala. According to some traditious, Juniter ed after the conquerors in the games; but tans, founded these games; Mars gained

the first prize in boxing, and Apollo overcame Mercury in the race. According to others, Pelops founded them in honor of "Jupiter. Others, again, ascribe them to the Argonauts. One of the dactyli (priests of Cybele, from mount Ida, whom Rhea, the wife of Samrn, had called from Crete to Elis, for the education of her son Jupiter), named Mercules, is also said to have founded them when he, with his four brothers (Peroncus, Ida, Jasius and Epinic-des), proceeded from Crete to Elis. These des), proceeded from Crete to Elis. four younger brothers contended with each other for the prize in racing. Hercules crowned the victor with a wreath of olives, , which was taken from a peculiarly beautiful olive tree, transplanted from the land of the Hyperboreans to the holy plain, near Pisa. This was afterwards alone employed for the victors' wreaths. Certain it is that, in the earliest times of Greece, games (probably of a religious nature) were celebrated in the neighborhood of Pisa. They were several times interrupted and renewed the first time by Iphitus, prince of Elis (884 B. C.); the second time by Chorcebus (776 or 777), from which time the Olympiads are dated. At the commencement, the inhabitants of Pisa had the superintendence of the games. But after Pisa had been destroyed by the Eleans. the latter undertook the superintendence. which they retained with few interrup-They, also, were the unpires, whose number was not always the same. A solemn oath compelled them to the ""rictest impartiality. Officers were appointed to preserve order. From all parts, spectators streamed to Olympia, to attend the games. However, the priestesses of Ceres excepted, only men were permitted to be present. Females who violated this law were thrown from a rock. The games always commenced on the 11th of the month Hecatombæon (which nearly corresponds with our July), and continued five days. The competitors prepared themselves, during ten months previous, at the gymnasium at Elis. During the last thirty days, the exercises were conducted with as much regularity as at the games themselves. The festival began in the evening, with solemn sacrifices, and the games were commenced the next day at day-break. These consisted in races on horseback and on foot, in leaping, throwing the discus, wrestling, boxing: musical and poetical contests concluded the whole. The honor of having gained a victory in the Olympic games was very great; it extended from the victor to his country, which was proud of owning him. The

magnificence of the temple of mpia. has been destroyed, partly in consequence of the political decay of this country,

of the political decay of this country, partly by earthquakes. (For an animated description of the Olympie games, see Barthelemy's Jenne Dacharsis.)

OLYMPUS. Seven mountains had, among the ancients, and pon The earliest Graywhich highest of all the point of thatisfaction the mountain (by, it is and as the central point of thatisfaction, or of the gods, and the gods other in a the content of the gods other in the point of the gods, and the gods other in the gods other was supposed to the gods. Over it lect c mit. here was supposed to be an openic ewton the metallic dome of heaven, who pally pillars, at the cotirid in after times lid it respecting the details. ed upon mountainrence of the earth. the ideas of inen se and the gods were . respecting the deto cularged, the such k enlarged, the exparts sphere or one reside in the exparts sphere or one ens, revolving received the space which ensbraced the plane atting and this new abode of heaven, and above ever transment of heaven, Besides beings were said to braced the plane this new abode of the gods, above we remainent of heaven, received the na in the post of the mountain, there were two properties of the mountain, which the sunand the night, with their train, ascended from the otenn into the heavens, and returned again. The gods themselves were called, from their dwelling place, whether upon earth of in heaven, Olympian gods, and, as such, formed a body, of which Jupiter was the head. The twelve great gods composed the The twelve great gods composed the council of elders in Olympus, and the others, collectively, formed the general assembly. They did not dwell together, in a single palace, but separate, in several, built upon the different tops of the manypeaked Olympus. At the highest summit stood the palace of Jupiter, where all assemblies and feasts were held in a large hall. From thence he could look down upon the earth, fill the heavens with clouds, and hurl his thunderbolts.

OMAN. (See Arabia.)
OMAR I, successor of Abubeker, and second caliph of the Mussulmans after Mohammed, also father-in-law of the prophet, began his reign A. D. 634, and is conspicuous among the conquerors who have desolated the face of the earth. His first expedition was against Damascus. capital of Syria; he drove the Greeks from this province and from Phoenicia. He took Jerusalem in the year 636, after He entered the city a difficult siege.

Thus, in the case of tate the sense. sounds, the words buzz, crash, roar, are evidently formed to imitate the sounds themselves; sometimes the word expressing an object is formed to unitate the sound produced by that objectin (See Language.) .

township and capi-ONONDAGA; a D t., New York, 134 in Albany, and 50 tal of Onondaga miles west-north-v 12 is 9 miles by 10. west of Utica. Its 3 ant fertility, ex-A broad valley, of " ugh the eastern tends north and sou part, bounded by hi · Illing ridges on Civalley of rich Throu, each side. ' Hollow, flows. alluvion, called On hd to Ononda-Onondaga creek, n ^{Ծղ}ւ. The whole ga lake, in the town township of Ononda ¹ained, in 1831, le mot to be rap-5668 inhabitants, and and t-borough of idly increasing. Onondaga, the scat of ounty buildings, thinincuce. The is situated on a deligh post-village of Onoughin Gollow is about of the house. It has one mile chat of the an arsenal belonging calthe state, and many mechanical estatine inents. Onon-daga Castle is the chi stiff wn of the remnant of the Onondal tect ibe of Indians. calthe state, and Oundary Hollow, and States about fifty Indian, houses, and Jour 140 persons. Their houses are built of hewn logs. They annually receive 1000 dollars from the state of New York,

ONTARIO; one of the five great lakes which separate Canada from the U. States, It is situated between 43° and 44° N. lat., and 76° and 80° W. lon. Its form is elliptical, and a central line drawn from its south-west to its north-east extremity measures 190 miles. Its greatest breadth is about 55, and its medial breadth about Towards the western part of 40 miles. the lake, it receives Ningara river; and from this point to the St. Lawrence river, which flows from the north-east part of the lake, the line dividing Canada from the U. States is the middle of the lake. Nearly half of lake Ontario is, therefore, in the state of New York. It is very deep, with sufficient water in every part. and has many good harbors. It is never entirely closed by ice, and is computed, from some soundings, to be 500 feet deep. If this be correct, the bottom must be considerably below the level of the Atlantic ocean. Its stricte is only 231 feet above tide water at Three Rivers on the St. Lawrence, and at Albany on the Hudson. Besides Niagara river, lake Ontario receives from New York the Genessee, Os-

such a manner that the sound shall imi- wego and Black rivers, and a large number of small streams. Among its bays, the largest are Chaumont, Sodus, Little Sodus. Teoronto and Braddock's on the side of the U. States; Quinte, Burlington, and many large ones on the Canada side, of which our maps do not give the names. Stony and Grenadier islands are at the eastern end; and there are some around Quinte bay, in Canada. Wolfe or Grand island is at the entrance of the river St. Lawrence; and the well-known Thousand islands are just below Wolfe island. Lake Ontario abounds with excellent fish of various kinds. most celebrated of these are the Oswego. bass, the salmon, trout, and salmou-trout. The shores of the lake embrace a great variety of land: the greater part of it is pretty good, with the exception of marshy ground. Along its southern border is that remarkable ridge called the ridge road, or alluvial way. (See Ridge Road.) ONTOLOGICAL PROOF is that proof of the existence of God which is drawn from the abstract idea of his being. Something similar to this is to be found as early as the Stoic Cleanthes. But Anselm of Canterbury and Descartes chiefly developed this species of proof.

ONTOLOGY, also ONTOSOPHY; the doctrine of being; a name formerly given to that branch of metaphysics which treats of the essential qualities of things. It investigated the nature, 1, of things in general, their possibility, reality and necessity; 2. of substance and accidence, cause, effect, and mutual operation; 3. of quantity, quality, similarity and equality of things; 4. of space and time; and, 5. of the simple and the compound. Kant has overthrown the ontology of the ancient

schools.

ONYCHITES. (See Alabaster.)

ONYX. (See Quartz.)

OONALASHKA. (See Aleutian Islands.) OOST; Dutch for east, corresponding

to the German Ost. (q. v.)
OPAL occurs, in small reniform, botryoidal, and stalactitic shapes, and large, tuberose concretions; surface of the former smooth, of the latter rough; composition impalpable; fracture conchoidal, even. It also occurs in pseudomorphoses of carbonate of lime; fracture conchoidal, of various degrees of perfection, sometimes highly perfect; lustre vitreous, in some varieties, inclining to resinous; color white, yellow, red, brown, green and gray; none of them lively, except some red and green ones; dark colors, owing to fereign admixtures; streak white; transparent, or translucent, sometimes only on

the edges, or even opaque, if the colors be very dark; lively play of light observable in some varieties; others show 'different colors by reflected and transmitted light; hardness below quartz; specific gravity, 2.091. The present species is treated of by many mineralogical writers under that of quartz; while others have subdivided its varieties into numerous The chief of these varieties, subspecies. species, or species, as they have been regarded by different authors, are, 1. noble opal, which exhibits brilliant and changeable reflections of green, blue, yellow and red; 2 fire opal, which simply affords a red reflection; 3. common opal, whose colors are white, green, yellow and red, but without the play of colors; 4. semiopal, the varieties of which differ frontthose of common opal in being more opaque; 5. wood opal, which appears in the shape of trunks, branches and roots of trees; 6. hydrophane, a variety without transparency, but assuming it if thrown into water; 7. hyalite, which occurs in small reniform, botryoidal, and sometimes stalactitic shapes, and is transparent; 8. menilite, which occurs in tuberose masses, and is opaque; 9. siliceous sinter, which is merely a deposit from a hot spring.— Three varieties of opal, 1. hyalite, analyzed by Bucholz, 2. precious opal, and 3. menilite, both analyzed by Klaproth, have yielded,

Silica I. 92.00 2: 90.00 3. 85.50 Water 6.33

The last contains, like several other varieties, a small proportion of iron, alumina, lime and carbon. Before the blow-pipe, water is disengaged, the mineral decrepitates and becomes opaque, and shows the properties of pure silica. Opal is less frequently met, with in nature than quartz. Generally it forms short, irregular veins, which, for the most part, are found in porphyry. It accompanies calcedony in the vesicular cavities of amygdaloidal rocks, and even in agate balls. Menilite is found in adhesive slate. Some varieties are met with in metalliferous veins, and in petrifactions in sandstone. Almost the only locality of precious opal known is at Czarwenitza, in Hungary, where it is found in porphyry. Lately, it has been met with in the Faroe islands, and also near Gracias a Dios, in South, America. Fire opalcomes from Zimapan, in Mexico. Common opal is found in large quantity in the serious or the comic character prevails. Hungary, Saxony and the Faroe islands, in the opera, it is termed opera seria or An apple-green variety is found at Kohe-opera buffs. There is also a style-metro mitz, in Silesia, which is called chloropal. .. stilo-between both, the limits of which it

Hyalite is found in amygdaloidal rocks in Boliemia and Hungary, and also in the U. States, in Georgia, lining cavities in the bulr-stone. Menilite occurs imbedded in adhesive clay at Mevil Moutant, near Paris. Wood opal is found at Kremnitz and Telkobanya, in Hungary, and in many districts of Transylvania. Precious opal is considered as a very precious gene, and is generally cut with a convex surface. Its while depends upon its size, purity, and the vivid colors which it purity sees. The phenomenon of the play dost, fors has not hitherto been satisfactoril count ined. According to Haily, it is the vest of puence of fissures in the interior fill extent in films of air, which reflect color extent in scording of air, which reflect color extent heording to the law of Newton's coth throl is. If this were the fact, opal wouleth, swell inclining else but a kind of iridescort, this the beauwere the fact, opal would, swe he beauty of opal would be of ondaga. Haily expresses it, only to its in orthward ons. But these colors often keep of saling directions within single parts of saling directions within single parts of saling contail convex form, but presenting eville possible to observe distinguished exactly as in the the cases reflected exactly as in the the cases reflected exactly as in the fall gridne, or in corundum. The planaga friors seems, therefore, to be comed court, to the regular structure of the mile to the regular structure of the mile to the mile to the regular structure of the mile to the saling and in this it is disting the distinct of it; and in this it is disting the treed from other dramas accompanied in or music. Song and music may be saling the opera remains a drama, and hever ought to lose

mains a drama, and fiever ought to lose this character, yet, as music is lyrical, the opera must be principally directed to the expression of feelings and passions. Comparatively little display of character and action can be expected from it. An opega, like every work of art, must bear the stamp of unity; one character must pre-vail through the whole, as the solemn and grave in Mozart's Magic Flute (though there are naif passages interspersed in it), or the glowing, vivid coloring of Figure, or the heroic elevation of Glück's Alceste. is further necessary to give individuality of character by means of the music, and the lyrical monologues (airs, caratine, ariosos) and dialogues (duettos, terzette, &c.) must alternate in pleasing variety. But our limits do not allow us to give a description of the various parts requisite to these exquisite productions. According as

is, of course, impossible to define. recitativo is an essential part of this. By operella is understood a short musical By. thrama of a light character. The Italians have a kind of musical dramas called intermezzo. (See Interbule.) The French vaudeville (q. v.) belongs to this species of compositions, but not the German melodrama, in which music, indeed, is introduced either by itself or in connexion with the dialogue, but no singing takes place. -Origin of the Italian Opera .- About the year 1594, three young noblemen of Florence, who were attached to each other by a similarity of tastes and pursuits, and a love of poetry and music, conceived the idea of reviving the chanted declaration of the Greek tragedy: they procured the poet Rinuccini to write a drama on the story of Daphne, which was set to music by Peri, the most celebrated musician of the age, assisted by count Giacomo Corsi. who, though only an amateur, was also, for the period, a good musician: the piece, like the Mask of Comus, was privately represented, and in the palace of Corsi. The interlocutors, or singers, were the author and his friends; and the orchestra of his first opera consisted but of four instruments, viz. a harpsichord, a harp, a viol di gamba, and lute. There was no attempt at airs; and the recitativeif such it could be called-was merely a kind of measured intonation, which would appear to us insufferably languid and monotonous; yet it caused, at the time, an extraordinary sensation, and was frequently repeated. Four years after-wards, the first public opera, entitled Euridice, written by the same poet, and set by the same musician, was represented at the theatre of Florence, in honor of the marriage of Mary de' Medici with Henry the Fourth of France. On this occasion, the introduction of Anacreontic stanzas, set to music, and a chorus at the end of each act, were the first imperfect indications of the airs and choruses of the modern opera. Monteverde, a Milanese musician, improved the recitative, by giving it more flow and expression; he set the opera of Ariadue, by Rinuccini, for the court of Muntua; and in the opera of Glasone, set by Cavili and Cicoguini, for the Venetians (1649), occur the first airs connected in sentiment and spirit with the dialogue. According to another story of the origin of the opera, John Sulpitius, about 1486, exhibited little dramas, accom-

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Grand. Rome, and also before the pope and some opera is the name given to that kind which: cardinals. The commencement of the is confined to music and song. The opera series at Rome reminds us of the wagon of Thespis and his lees-besmeared company of strollers. The first performance of this kind, consisting of scenes in recitative and airs, was exhibited in a cart during the carnival of 1606, by the musician Quagliata and four or five of his friends. The first regular serious opera performed at Naples was in 1615: it was entitled Amor non ha Legge. During the next half century, the opera not only did not improve, but it degenerated; it became in Italy what it was in France during the last century—a grand spectacle addressed to the eye, in which the poetry and music were the last things considered, while the scenery, mechanical illusions, and pantomime, were on the most splen-did scale. As Goldoni said long afterwards of the grand opera at Paris, C'était le paradis des yeux et l'enfer des oreilles.-The first opera buffa is said to have been represented at Venice in 1624, where also the first stage for operas was erected (in In 1646, the opera was transplanted to France by cardinal Mazarin. (See France, division Dramatic Poetry, and Art.) In Germany, carnival plays, in which the performance consisted of singing, existed even in the times of Hans Sachs (died Opitz and others imitated the Italian pieces; but the first German original opera is said to have been Adam and Eve, played in 1678, in Hamburg. Some consider The Devil let loose the first comic opera in Germany. In Sweden, the first Swedish original opera was performed in 1774. The Italian opera was introduced into England in the seventeenth century. Handel effected a revolution there, which, however, did not exert a permanent influence on the English opera. The Italian opera did not penetrate into Spain until the second half of the eighteenth century. The Italians draw the line between the opera seria and opera buffa much more distinctly than the Germans, so that the Italian opera seria appears almost insipid to a German; the buffa, on the contrary, is quite grotesque and quite national, and produces a lively effect when played by Italians. Among the most distinguished Italian writers of operas are Apostolo Zeno, and particularly Metastasio, who, in the eighteenth century, carried the Italian opera to so great a height. Among the writers of comic operas we must mention Goldoni. Among their composers, Sacchini, Piccini, Jomelli, panied with music, in the market-place at Cimarosa, Salieri, Paisiello, Zingarelli,

Halian Opera.) Among the French writers of operas are Quinault, La Fontaine, the eastern coast of Africa, or in the East La Motte, Marmontel, Favart, Sedaine, Etienne, Jouy, Scribe. Theaulon. Among the French composers are Gretry, Mon-signy, Rousseau; Dalayrac, Isouard, Boyeldieu, Catel, Mehul, and the nationalized Spontini and Cherubini. Among the English writers of operas are Addison, Gay, Fielding, Kenrick, &c. The English have no distinguished composers of ope-The German opera, as it now exists, originated from the operetta, chiefly cultivated in the latter half of the eighteenth century by Weisse and Hiller. pieces which are sung became longer and longer, so that at last they took the form of the opera seria; and when the finale, invented by the Italians, was introduced, general preference was given to that kind of opera. Spoken dialogue and song alternaté m it; but in recent times, the great German composers have changed the prose dialogue also into recitative. The romantic opera is a German production, and compounded of the Italian opera seria and opera buffa. Among the most perfect of the German romantic operas are the Magic Flute, Don Juan, Der Freischütz, Oberon, Some of the poets who have written for the German opera are Göthe, J. G. Jacobi, Herklots, Huber, Kotzebuc, Schikanodor, Kind, Gehc, &c. Among the German composers are Gluck, Hasse, Mozart, Winter, Weigl, Reichardt, Kunzen, Vogler, Becthoven, C. M. v. Weber, Si ohr, Kreutzer, &c.

OPERA GLASS, in optics; so called from its use in theatres, &c. It is sometimes called a diagonal perspective, from its construction. It consists of a tube about four inches long, in each side of which there is a hole exactly against the middle of a plane mirror, which reflects the rays falling upon it to the convex glass, through which they are refracted to the concave eye-glass, whence they emerge parallel to the eye at the hole in the tube. This instrument is not intended to magnify objects more than about two or three times. It is intended for viewing persons, at a small distance, so that no one shall know who is observed; for the instrument points to a different object from that which is viewed; and as there is a hole on each side, it is impossible to know on which hand the object is situated which is looked at.

OPHIR; a country or city to which the Hebrews made voyages in the time of Da-vid and Solomon, bringing home gold,

OPITZ. 395 Martini, Rossini, Generali, &c., are distinivory, spices, psacoeks, &c. Commentaguished. (See Arteaga's History of the tors are not agreed as to its situation, but it seems most probably to have been on Indies.

OPHITES; a Gnostic sect, which rose in the second century, and held, in common, with the Valentinians (see Gnostics), the doctrines of the two principles, of cons (q. v.), and of the theogony therewith connected. They were peculiar in the worship of a : living serpent, which they considered as the emblem of the sensual principle in man and of prudence (sophia). The Ophites kissed the snake, in which they ' honored the tempter of Eve in paradise, on the same principle as the pagans worshipped evil deities. Hammer has explained the signification of this emblem, and its worship, in a different manner, in the Fundgruben des Orients (6th vol. No. 1).

OPHICCHUS, or SERPENTARIOS, and SERPENS; one of the old constellations, which was anciently called Escularius.

OPHTHALMIA (δφθαλμος, eye); an inflam mation of the mucous membrane, which covers the globe of the eye and of the correspondent surface of the eyelids. is either acute or chronic. It differs very much in its exciting causes. Residence in damp or sandy countries, exposure to the sun, sudden changes of weather, are among the most usual causes. It may also be produced by the suppression of some of the usual discharges, and also by the scrofulous and venereal virus. characteristic marks are pain and redness. Of all diseases of the eye it is most fre

Orie, John, professor of painting at the royal academy, was born in 1761, in Cornwall. His father was a carpenter, and he was intended for the same occupation; But when very young, he manifested a taste for study, and a strong predilection for the arts of design. When about nineteen, he removed to London; but his pictures were not admitted into the exhibition at Somerset house till 1786. afterwards became an academician. published An Inquiry into the Cultivation of the Arts of Design in England, and delivered lectures at the royal institution. In 1804, he succeeded Fuseli as professor of painting, and read four lectures on painting, which have been published. He died in 1807. He holds a respectable station among English painters.

OPITZ, or OPITIUS, a celebrated German poet of the seventeenth century, born. at Bunzlau, in Silesia, in 1597, published

sides poetical compositions, he published his . Iristarchus, sive de Contemptu Lingue Tentopiece (4to.). He then studied at Frankfort on the Oder, and, having afterwands visited many cities in Germany and Holland, he went, in 1621, to the court of the duke of Lieguitz; whence, in about a year, he removed, to become professor of philosophy and classical literature at the university of Weissenburg, then newly founded by Bethlen Gabor. The situation proving unpleasant, he soon returned to Bunzlau, and afterwards to Liegnitz. Becoming distinguished for his talents, he ivent to Vienna, where the emperor Ferdinand II bestowed on him the poetical crown, and afterwards gave him letters of arbility; when he assumed the title of von Boberfeld. He returned to Silesia. and became secretary to the burgrave of Dohna; but, on losing his patron by death, he entered anew into the service of the duke of Liegnitz. At length he was appointed secretary and historiographer to the king of Poland, and passed the last five years of his life at Dantzic, where he died Aug. 20, 1639. Among his works are a poem on mount Vesuvius, Silvæ, Epigrams, &cc. Opitz was the creator of a new and more correct poetical style in Germany, founded on the model of the ancient classics, and of a form of versification accommodated to rules of prosody, and resting on the measure of syllables, and not their number. He was well acforminted with the ancients, and had stored his mind with useful knowledge, so that his poems, especially the larger ones, are rich in thought and invention. The lanrich in thought and invention. guage is indebted to him for new connexions and forms, greater smoothness and correctness, expressiveness and euphony.

Orium; the inspissated juice of a species of poppy (papaver somniferum), a nutive, originally, of the East, but now naturalized throughout the greater part of Europe. The root of this plant is annual, riving out a stem from two to four feet high, which, as well as the leaves, is glaucous. The flowers are terminal, white or diameter: in the wild plant they are provided with only four petals, but in the double varieties the petals are very numerous, and vary in color from white to red and to deep violet, with a bundred inter-vening shades. The capsules contain a

first a collection of Latin poems, entitled prodigious number of seeds. It is found in most gardens as an ornamental plant, ing year he became a teacher at the gymnasium of Benthem, on the Oder, and, benthem, on the Oder, and, benthem, on the Oder, and, benthem, on the Oder, and the sides merical compositions he rubbled. sake of the oil which is obtained from the seeds. It is from the East, from different parts of the Turkish empire, and from Hiudoostan, that the opium of commerce is chiefly procured, The finest opium is obtained by making longitudinal incisions's in the green capsules in the evening; the milky juice which flows out is suffered to remain till the following evening to acquire consistence, when it is removed, and the process repeated. When the seeds are the sole object, the time of sowing is in the autumi, and at the end of the following July or beginning of August, the crop is ready for harvesting: before cutting off the capsules, it is better to shake them on cloths spread for the purpose; or, if this precaution is not taken, they should be removed with great care, keeping them i always in an upright position until they are placed in sacks; otherwise a portion of the seed will be lost: the capsules should then be exposed to the air to complete their desiccation, and the seed, after being separated, should be kept in a dry place. The oil has an agreeable taste, and, after olive-oil, is esteemed the best for culinary purposes. In Germany and the Netherlands, it is almost the only kind The seeds, after being roasted and prepared in various manners, were employed by the Romans in making several sorts of cakes and dainties; and this custom is still prevalent in some parts of the. north of France. Opium is the most onergetic of nurcotics, and at the same time one of the most precious of all medicines, and is employed in the greatest variety of It is invaluable in procuring relief cases. from pain at all times, and is an efficient remedy in choleras, spasmodic affections, convulsions, tetanus, neuralgias, &c., &c. It is most commonly employed for the purpose of procuring sleep; but its habitual use is attended with similar, if not worse effects, than the abuse of ardent spirits. A full dose is intoxicating and exhilarating: but, if taken in large quantities, it produces dangerous and fatal effects. An emetic should be immediately resorted to in such Laudanum is a liquid preparation light gray, and three or four inches in -of opium, made with alcohol, and is similar; in its effects on the human system. speaking of the opium eaters of Constant tinople, whom he saw in a coffee house frequented by them, says, "Their gestures. were frightful; those who were completely:

under the influence of the opium talked incoherently: their features were flushed: their eyes had an unnatural brilliancy, and the general expression of their counte-nances was horribly wild. The effect is usually produced in two hours, and lasts four or five. The dose varies from three grains to a drachm. The debility, both moral and physical, attendant on its excitement. is terrible; the appetite is soon destroyed, and every fibre in the body trembles; the nerves of the neck become affected, and the muscles get rigid : several I have seen in this place who had wry necks and contracted fingers, but still they cannot abandon the custom. They are miserable till the hour arrives for taking their daily dose."-The opium of commerce is in masses of different sizes. It is somewhat hard, of a brown color, and a bitter, acrid and nauscous taste. Its odor is peculiar and characteristic. It softens with a genthe heat, and, when more heated in the air, it kindles, but does not burn readily. It contains acidulous meconate of morphia, extractive matter, mucilage, fecula, resin, fixed oil, caoutehoue, a vegeto-animal substance, debris of vegetable fibres, occasionally a little sand, and small white pebbles, together with the white crystalline salt of opium, now known under the name of narcotine. If we treat opium first with abundance of ether, a tincture of a deep yellow shade is obtained, from which there gradually falls a powder, insoluble in water, alcohol and ether, and, when distilled, it affords a considerable quantity of ammonia. The ethercous fincture, freed from this yellowish powder, yields, on evaporation, crystals impregnated with a viscid oil, among which small masses, of more consistence, are seen to float. These are caoutchouc, which may be separated from the oil by a fine tube. The oily liquid is to be decanted, in order to insulate the crystals, which are then treated with boiling alcohol. On cooling, this affords the narcotine, slightly impregnated with From this a new solution caoutchouc. frees them completely. Hence, by this process, are climinated four different products: 1. a fixed oil; 2. caoutchouc; 3. a vegeto-animal substance; 4. narcotine. The opium, after being thus exhausted by ether, when dissolved in water, affords solutions equally acid as ordinary opium. and which comport themselves with magnesia or ammonia, as if no ether had been applied to it. (See Morphia.) It is obvious, therefore, that the two crystalline bodies, narcotine and morphia; exist in 34 VOL. IX.

opium quite independent of each other. In the 8th and 9th volumes of the Journal of Science of the Royal Institution of Great Britain, and in the 1st volume of the Edinburgh Philosophical Journal, are two valuable papers on the manufacture of opium. According to Orfila, a dangerous dose of opium is rather aggravated than counteracted by vinegar. The proper remedy is a powerful emetic, such as sulphate of zinc, or sulphate of copper.

OPODELDOC; a solution of soap and alcohol, with the addition of camplior and volatile oils. It is used externally against rheumatic pains, sprains, bruises, and other

like complaints.

Oronto, or Porto, next to Lisbon the most considerable city of Portugal, in the province Entre Minho e Duero, lies in a narrow valley, on both sides of the Duero; lat. 41° 11′ N.; Ion. 8° 40′ W.; about 160 miles north of Lisbon. It contains 11 public squares, 90 churches, 17 monasteries, 14 hospitals, and 70,000 inhabitants. The city is distinguished for its cleanliness, and on the river there are fine quays. The harbor is excellent, and protected by a fortress: 1200 ships enter it yearly. The mouth of the river, however, is obstructed by rocks and quicksands. ' Oporto is the emporium for the export of Port wine, which receives its name from this gity, but is chiefly produced in the province of Trus os Montes. The amount exported yearly varies from 50,000 to 70,000 pipes, of which the greatest part goes to Great Britain. (See Port.) The wine trade is principally in the hands of a company, chartered in 1756, which has also thirty brandy distilleries. There are about thirty British houses established in Oporto, Other articles of export are oil sumuch, linen and oranges. The imports are woollen, cotton and hardware manufactures, mainly from England; salt fish, hemp and flax; and, from the U. States, rice. The country seats in the environs, called quintas, are beautifully situated. The climate is cold for the latitude. Oporto derives its origin from the small place Cale, which lay on the other side of the river; the present site, being found more commodious for shipping, acquired the name of Portus Cale; whence the Portugueso O Porto (the Port); while the kingdom itself received the name of Portugat. Oporto was occupied by the French in 1808, and it has suffered much in its commerce since the usurpation of don Miguel (q. v.), many of its citizens having fallen. victims to the troubles which have agitated the country, or been forced to flee.

(See Portugal.)

Opossu a (didelphis). These extraordinary animals belong to the marsupialia, or those quadrupeds the females of which are firmished with a pouch in the abdomen; they are peculiar to the American continent; and one, and the best known of them, is very common in the U. States: this is the D. Virginiana, the general color of which is whitish-gray; the whole hair is of a wool-like sofiness; it is short on the face and body, but long on the legs. The tail is thick and black for upwards of three inches at base, and is covered with small scales. The opossum is seldom or never to be seen in the day time, being a nocturnal and timid animal, depending far, more on his natural sagacity than on his strength for his sufety." motions on the ground are awkward and clumsy'; but on the branches of a tree he moves with great celerity and case, using his tail to assist his motions. This organ is prehensile, and enables the animal to suspend himself by a branch, either when in pursuit of food, or when he wishes to descend. His usual prey is birds, some of the smaller quadrupeds, eggs, &c., though he offentimes commits great depredations in orchards; his favorite food of this kind, however, is the persimmon, on which he becomes very fat. The flesh is good, resembling in flavor that of a young pig. The wool, especially of those killed during the winter, is very long and fine, and might be advantageously employed in many manufactures. The places in which the opossum is usually found are thick woods, where they generally dwell in the hollow of decayed trees. They are usually hunted in the autumn, after the first frosts: as soon as they perceive the approach of danger, instead of taking to flight, they lie close to the branch on which they were clinging; when they are discovered, they are taken by shaking the branch violently; they then drop to the ground, and, if the hunter is unaccompanied by dogs, they steal slowly away, and, gathering themselves into as small a compass as possible, remain pertectly quiet, as if feigning death. After remaining thus till they think themselves secure, they steal off; if, however, any sudden noise be made, they again assume their death-like position, in which they will persevere even when taken up and handled. This well-known attribute of the opossum has become a proverb, and "He is playing 'possum," is applied, in id to quarts of the country, to any one ening shi

thought to be acting deceitfully. The female has ten to fifteen young, who are, for a long time, nourished in the pouch, and to which they resort on the appearance of any danger. When they are too large to be thus carried, they cling to the mother by twisting the extremity of their tails round the base of hers. When taken young, they are readily tamed, but are mischievous pets. Wonderful medical virtues were cornerly attributed to the tail of this animal, in a great variety of cases,

Oppian; a Greek poet, who lived under the emperor Caracalla, in the beginning of the third century. He was a native of Cilicia, and apparently of Grecian descent. He wrote poems distinguished for elegance and sublimity; but two only of his productions are now extant, his Halieuticon, or five books on fishing, and four books on hunting, entitled Cynageticon. Caracalla was so pleased with it, that he gave the author a piece of gold for every verse, whence the poem has been styled the "golden verses" of Oppian. He died in his thirtieth year (A. D. 213), and his countrymen crected statues in honor of The best edition of his works is that of Schneider (Strasburg, 1776, 8vo.; there is another by the same editor, 1813, 8vo.). His Halieuties have been translated into - English, by Jones (Oxford, 1722, 8vo.).

Opposition, in astronomy, is that aspect of any two heavenly bodies when they are diametrically opposite each other, or 180°, that is, a semicircle, apart. (See

Aspect.)

Opposition, as this word is understood in reference to the deliberative assemblids of free representative governments, is something not only wholly unknown to the ancients, but also of but recent origin. It is difficult to fix precisely the period when opposition, in the modern meaning of the word, began; but we shall probably not be far from the truth when we date the more regular opposition from the accession of the house of Hanover to the throne of England: There existed, indeed, before, opposing parties in England, and in other countries, but not a regular parliamentary opposition. Opposition is an indispensable ingredient of free representative governments: it is both a check and a stimulus, and it is a strong proof of the judicious organization of modern governments, in comparison to those of antiquity, that opposition has become more truly an essential part than a hostile element of government, and, laughable as the expression, "his majesty's opposition," sounded when used, some

years ago, in the British parliament, it contained a great truth; because, though the opposition may struggle against an existing administration, it contributes to the soundness and vigor of the body politic. It is impossible to make one, accustorned only to absolute governments, or those of ancient states, understand the true meaning of a modern opposition; to him, all opposition is rebellious. Nothing contributes more to form an independent and intelligent spirit in a nation, than a persevering and judicious opposition, which does not weaken its efficacy by blindly resisting what is good. A full discussion of this subject belongs to a systematic work on governments; and well would it be, were there an author, to treat all the parts of free governments with a sagaciousness like that of the immortal Florentine, in his developement of absolute power. France, Great Britain and the U. States, are the only countries in which opposition, in the true meaning of the word, as yet exists.

Ors. (See Cybele.)

OPTICS; the science of vision, which treats of the changes which light undergoes, in its qualities, or in its duration, when passing through bodies of different kinds and shapes, when reflected from their surfaces, or when moving past them at short distances. (For an account of the nature and more general properties of light, see the article under that word.) Preliminary to the present article, we give the following definitions: By a ray of light is meant the motion of a single particle; and its motion is represented by a straight line. Any parcel of rays, passing from a point, is called a pencil of rays. a medium is meant any pellucid or transparent body, which suffers light to pass through it; thus water, air and glass are called media. Parallel rays are such as move always at the same distance from each other. If rays continually recede from each other, they are said to diverge; if they continually approach towards each other, they are said to converge. point at which converging rays meet is called the focus; the point towards which they tend, but which they are prevented from coming to, by some obstacle, is called the imaginary focus. When rays, after passing through one medium, on entering another medium, of different density, are bent out of their former course. and made to change their direction, they are said to be refracted; when they strike against a surface, and are sent back again from the surface, they are said to be re- advance of the window which admits the

flected. A lens is glass ground into such a form as to collect or disperse the rays of light which pass through it. These are of different shapes, and from thence receive different names: a plano-convex lens has one side flat, and the other convex; a plano-concare lens is flat on one 'side, and concave on the other; a double convex lens is convex on both sides; a double concare lens is concave on both sides; a meniscus is convex on one side, and concave on the other. A line passing a through the centre of a lens is called its aris.

Of Refraction. Although a ray of light will always move in the same straight line, when it is not interrupted, yet every person knows, that when light falls upon a drop of water, or a piece of glass, or a bottle containing any fluid which allows the light to pass, it does not reach the eye, or illuminate a piece of paper placed behind those bodies, in the same manner as* before they were put in its way. This obviously arises from the direction of the light being changed, by some power which resides in the bodies. The explanation of the law, or rule, by which this change in the direction of a ray takes place, constitutes that part of the science of optics called dioptrics, from two Greek words, one of which signifies through, and the other to see, because the bodies which produce this change are those through which we can see, or through which light passes. If the rays of light, after passing through a medium, enter another of a different density, perpendicular to its surface, they proceed through this medium in their original direction. But if they enter obliquely to the surface of a medium, either denser or rarer than what they moved in before, they are made to change their direction in passing through ' that medium. If the medium they enter be denser, they move through it in a direction nearer to the perpendicular drawn to its surface. 'On the contrary, when ... light passes out of a denser into a rarer medium, it moves in a direction farther from the perpendicular. This refraction. is greater or less, that is, the rays are more or less bent, or turned aside from their course, as the second medium through. which they pass is more or less dense than the first. To prove this, in a ratisfactory way, take an upright empty vessel into a darkened room, which admits but a single beam of light obliquely through a hole in a window shutter. Let the empty vessel stand on the floor, a few feet in

beam of light descends towards the floor. it just passes over the top of the side of the vessel next the window, and strikes the bottom on the side farthest from the window. Let the spot where it falls bemarked. Noty, on filling the vessel with water, the ray, instead of striking the original spot, will fall considerably nearer the side towards the window. And if we alld a quantity of salt to the vessel of water, so as to form a dense solution, the point where the ray strikes the bottom will move still nearer to the window. In like manner, if we draw off the salt water, and supply its place with alcohol, the beam of light will be still more highly refracted; and oil will refract yet more than alcohol. In these experiments, if the room be filled with dust, the rays will be rendered much more visible. Although, in most cases, there is a connexion between the refractive power and the density of bodies, yet refraction does not invariably increase with their density. In the case of oily substances and inflammable bodies, such as hydrogen, phosphorus, sulphur, diamond, bees' wax, amber, spirit of turpentine, liuseed oil, olive oil, camphor, their refractive powers are from two to seven times greater, in respect to their density, than those of most other substances. Sir Isaac Newton observed this fact with respect to the last five substances, which, he says, are "fat, sulphureous, unctuous bodies," and, as he observed the same high refractive power in the diamond, he inferred that it was probably an unctuous substance coagulated. This law, however, at one time, seemed to be overturned by an observation of doctor Wollaston, that phosphorus, one of the most inflammable substances in nature, had a very low refractive power; but doctor Brewster, confiding in the truth of the law, examined the refractive power of phosphorus by forming it into prisms and lenses, and he found it to be nearly as high as diamond. and fully twice that of diamond compared with its density—an observation which re-· established and extended the general principle respecting the refractive power of inflammable substances. (For an account of double refraction, see Refraction. Double.)

Of Reflection. . When light falls upon a body, a portion of it is thrown back, or reflected from its surface, according to a regular law, the explanation of which constitutes that branch of optics called catoptries, a word derived from two Greek , words, one of which signifies from, or

light, and let it be so arranged, that as the 'against, and the other to see, because things are seen by light reflected from bodies. When a ray of light falls upon any body. it is reflected so that the angle of incidence is equal to the angle of reflection; and this is the fundamental fact upon which all the properties of mirrors depend. Let a ray of light, passing through a small hole into a dark room, be reflected from a plane mirror; at equal distances from the point of reflection, the incident and the reflected my will be at the same height from the surface. The same is found to hold in all cases, when the rays are reflected at a curved surface, whether it be couvex or concave. The rays which proceed from any remote terrestrial object, are, nearly parallel at the mirror; not strictly so, but come diverging to it in several pencils, or, as it were, bundles of rays, from each point of the side of the object next the mirror; therefore they will not be converged to a point at the distance of half the radius of the mirror's concavity from its reflecting surface, but in separate points, at a greater distance from the mirror. And the nearer the ob-, ject is to the mirror, the farther these points will be from it; and an inverted image of the object will be formed in it, which will seem to hang pendent in the air, and will be seen by an eye placed beyond it (with regard to the mirror), in all respects like the object, and as distinct as the object itself. If a man place himself directly before a large concave mirror, but farther from it than the centre of its concavity, he will see an inverted image of himself in the air, between him and the mirror, of a less size than himself; and ifhe hold out his hand towards the mirror, the hand of the image will come out towards his hand, and coincide with it, of an equal bulk, when his hand is in the centre of concavity, and he will imagine: that he may shake hands with his image. If he reach his hand farther, the hand of the image will pass by his hand, and come between it and his body; and if he move his hand towards either side, the hand of the image will move towards the other; so that, whatever way the object moves, the image will move the contrary way. bystander will see nothing of the image, because none of the reflected rays that form it enter his eyes. The images formed by convex specula are in positions similar to those of their objects; and those also formed by concave specula, when the object is between the surface and the principal focus: in these cases, the image is only imaginary, as the reflected rays

never come to the foci, from whence they seem to radiate. In all other cases of reflection from concave specula, the images are in positions contrary to those of their objects; and these images are real, for the rays, after reflection, do come to their resulective foci.

Colors. The origin of colors is owing to the composition which takes place in the rays of light, each heterogeneous ray consisting of innumerable rays of different colors: this is evident from the separation that ensues in the well known experiment of the prism. That branch of optics which treats of the colors of light, of their physical properties, and of the laws according to which light is decomposed, and recomposed from its elements, is called chromatics, from a Greek word signifying color. A ray being let into a darkened room, through a small aperture, and falling on a . triangular glass prism, is, by the retraction of the prism, considerably dilated, and will exhibit, on the opposite wall, an oblong image, called a spectrum, variously colored, the extremities of which are bounded by semicircles, and the sides are rectilinear. The colors are seven in number, which, however, have various shades, gradually intermixing at their Their order, beginning from uncture. the side of the refracting angle of the prism is red, orange, yellow, green, blue, purple, violet. The obvious conclusion from this experiment is, that the several component parts of solar light have different degrees of refraugibility, and that each subsequent ray, in the order above mentioned, is more refrangible than the preceding. Their different degrees of refrangibility may be proved by admitting rays of red, orange, yellow, green, blug, indigo and violet light, through a small aperture, into a darkened room, prepared as in the experiment for showing the refractive power of water, alcohol, &c., above described. We shall find that each color has a different refractive power of its own, that of the red being the least, and that of The following the violet the greatest. table exhibits the result of such an experiment with water:

Red,															1.3310
Orange,															
Yellow,	•	•	•	•	•	•	•	•	•	•	•	•	•	•	13336
Green, .															
Blue, .	•	•	•	•	•	•	•	•	•	•	٠	·	•	•	1.3378
Indigo, .	•	•	•	٠	•	•	•	•	•	•	·	٠.	•	•	1.3413
Violet, .	٠	•	•	٠	•	•	•	٠		٠	•	٠	٠	٠	1.3442

Either of these rays, on being made to traverse another prism, remains unalter-

able; they are, therefore, all-regarded as permanent, and each one distinct from the other. This opinion is heightened by the fact, that they undergo no manner of change by reflection; for if any colored body be placed in simplified, homogeneous light, it will always appear of the same color as the light in which it is placed. White is compounded of all the primary colors, mixed in their due proportion; for if a solar ray be separated, by the prism, into its components, and, at a proper distance, a lens be so placed as to collect the diverging rays again into a focus, a paper, placed perpendicularly to the rays in this point, will exhibit whiteness. The same conclusion may be drawn from mixing together paints of the same color . as the parts of the spectrum, and in the same proportion; the mixture will be white, though not of arresplendent whiteness, because the colors mixed are less bright than the primary ones; this may likewise be proved by fixing pieces of cloth, of all the seven different colors, on the rim of a wheel, and whirling it round with great velocity; it will appear to be white. Though seven different colors are distinguishable in the prismatic'spectrum, yet, upon a closer examination, we shall see that there are, in fact, only three original colors—red, blue, yellow; for the orange, being situated between the red and yellow, is only the mixture of these two; the green, in like manner, arises from the blue and yellow; and the violet from the blue and red. As the color of a body, therefore, proceeds from a certain combination of the primary rays which it reflects, the combination of rays flowing from any point of an object will, when collected by a glass, exhibit the same compound color in the corresponding point of the image. Hence appears the reason why the images, formed by glasses, have the colors of the object which they represent. When a prism of solid glass is employed for separating the rays of light, the lengths of the colors are expressed as follows: red, 45: orange, 27; yellow, 40; green, 60; blue, 60; indigo, 48; violet, 80; or 360 in all. But these spaces vary with prisms of different substances, and as they are not separated by distinct limits, but shade gradually into one another, it is almost impossible to obtain any thing like an accurate measure of their relative extents.

Vision. Objects presented to the eye have their images painted on the back part of the retine, the rays of the incident pencils converging to their proper foci

there, by the refraction of the different humors, for which purpose they are admirably adapted; for, as the distance between the back and front of the eye is very small, and the rays of each of the pencils that form the image fall parallel, or else diverging, on the eye, a strong refractive power is nocessary for bringing them to their foci at the retina; but each of the humors, by its peculiar form and density, contributes to cause a convergence of the rays; the aqueous, from its convex form; the crystalline, by its double convexity and greater density than the aqueous; and the vitreous, by a less density than the crystalline, joined to its concave form. The structure of the eyes is, in general, adapted to the reception of parallel rays; but, as the distances of visible objects are various, so the eye has powers of accommodating itself to rays proceeding from different distances, by altering the distances of the crystalline from the retina, which is done by the action of the ciliary Defective sight arises from ligamients. an incapacity of altering the position of the crystalline within the usual limits: 1. when it cannot be brought close enough to the cornea, near objects appear indistinct; to this defect people in years are generally subject; 2, when the crystalline cannot be drawn sufficiently near to the retina, remote objects appear indistinct; this is the defect under which short-sighted people labor. In each of these cases, the images of the different points in the object would be diffused over small circles on the retina, and so, being intermixed and confounded with each other, would then form a very confused picture of the object. For, in the former case, the image of any point would be formed behind the retina, as the refraction of the eye is not sufficiently strong to bring the rays (diverging so much as they do in proceeding from a near point) to a focus at the retina. This defect will therefore be remedied by a convex glass, which makes the point whence the rays now proceed more distant than the object; therefore the rays, falling on the eye, will now diverge less than before, or else be parallel, and will, of course, be brought to a nearer focus, viz. at the retina. In the latter case, the image is formed before the retina, because the refractive power of the eye is too great to permit rays so little diverging (as they do in proceeding from a distant point) to reach the retina, before they are collected into a focus: in this case, the defect is supplied by a concave

glass, which makes the point whence the rays diverge nearer than the object; consequently, the rays falling on the eye will now diverge more than before, so as, when refracted through the humors, not to come to their focus before they reach the retina. Therefore spectacles are constructed concave for short-sighted, and convex for long-sighted people. And the frames of spectacles should be so bent that the axes of both glasses may be directed to the same point, at such a distance as you generally look with spectacles. By this means the eyes will fall perpendicularly upon both glasses, and make the object appear distinct; whereas, if they fall obliquely upon the glasses, the object will appear confused and indistinct. -Cause of Squanting. A person is said to squint, when both eyes do not seem to be directed to the object at which he is looking. When either of the eyes has a less. perfect vision, or a different focal length, or when there is any weakness in its external muscles, we are ant to make use only of the good eye; and when we acquire the habit of doing this, the imperfect eye is left at rest, and will sometimes cease even to follow the movements of the other. If the good eye is shut, and the bad one forced to exert itself, the iris will be placed symmetrically between the eyelids, and the squint formerly seen the eye will disappear. Should the eye, in this case, still squint, the cause of it must be sought either in the central hole of the retina not being at the extremity of the axis, or in some mal-conformation, by which the retina is not perpendicular to the axis of the eye, at the point where they meet. This disease of the eye, which is so generally neglected, might be frequently cured, even in adults, by those who are thoroughly acquainted with the structure and functions of this organ. Accidental Colors. One of the most curious affections of the eye is that which gives rise to ocular spectra, or accidental colors. If we place a red wafer on a sheet of white paper, and, closing one eye, keep the other directed, for some time, to the centre of the wafer, then, if we turn the same eye to another part of the paper, we shall see a green wafer, the color of which will grow fainter and fainter as we continue to look at it. This green image of the wafer is called an ocular spectrum, or the accidental, or opposite color of red. By using different. colored wafers, we obtain the following results:---

Color of the Wafer:

Black, . . . White.

White, . . . Black.

Red, . . . Bluish green.

Orange, . . . Blue.

Yellow, Indigo.

Green, . . . Violet, with a little red.

Blue. . . . Orange red.

Blue, . . . Orange red. Indigo, . . . Orange yellow. Violet, . . . Bluish green.

When a strong impression of white light is made upon the eye, a succession of remarkable spectra is visible. When the sun was near the horizon, M. Æpinus fixed his eye steadily upon it for fifteen seconds. Upon shutting his eye, he saw an irregular, pale greenish-yellow image of the sun, surrounded with a faint red When he opened his eye, and turned it to a white ground, the image of the sun was brownish-red, and its border sky-blue. With his eye again shut, the image appeared green, and the border a red, different from the last. On opening his eye, and turning it to a white ground, as before, the image was more red than formerly, and the border a brighter skybluc. His eye being again shut, the image was green, approaching to sky-blue, and the border a red, still differing from the When his eye was again opened upon a white ground, the image was still red, and its border sky-blue, but with different shades from the last. At the end of four or five minutes, when his eye was shut, the image was a fine sky-blue, and the border a brilliant red; and, upon opening his eye, as formerly, upon a white ground, the image was a brilliant red, and the border a fine sky-blue. Experiments of a similar kind were made by doctor Brewster, by looking at a brilliant image of the sun's disk, formed by a concave With his right eye tied up, he viewed this luminous disk with the left, through a blackened tube, to prevent any extraneous light from falling upon the When the retina was highly excited by this intense light, he turned his · left eye to a white ground, and perceived the following spectra, by alternately opening and shutting his eye:-

Spectra with the left Ege open.

1. Pink, surrounded with green,
2. Orange, mixed with pink,
3. Yellowish brown, Blue.
4. Yellow, Bluish pink,
5. Pure red, Sky-blue.
6. Orange, Indigo.

These spectra were always surrounded with a ring of the accidental color. If, · when one of these spectra is visible, we press the eye to one side, the spectrum will appear to be absolutely immovable, if the experiment is not made with much It will be found, however, attention. by pressing both the eyes at once, and by due attention to their corresponding motions, that the spectrum does move, and that it is seen by the eye in the same manner as if it were the image of an external object, conformably to the law of visible direction. By means of pressure upon the eye-ball, ocular spectra may be produced; and when spectra, produced by external impressions of light, are seen by the eye, their colors are changed by pressure on the eye-ball. The pressure of the blood-vessels on the back of the ere often produces spectra, in particular states of the stomach. In slight affections, these spectra are floating masses of blue light, which appear and disappear in succession; but, in severe ones, they become green, and sometimes rise to yellow: hence it follows, that pressure upon the retina creates the sensation of light and colors. -- Colors produced by the unequal Action of Light upon the Eyes. If we hold a slip of white paper vertically, about a foot from the eye, and direct both eyes to an object at some distance beyond it, so as to see the slip of paper double, then, when a candle is brought near the right eye, so as to act strongly upon it, while the left eye is protected from its light, the left hand slip of paper will be of a tolerably bright green color, while the right hand slip of paper, seen by the left eye. will be of a red color. If the one image overlaps the other, the color of the overlapping parts will be white, arising from a mixture of the complementary red and green. When equal candles are held equally near each eye, each of the images of the slip of paper is white. If, when the paper is seen red and green, by holding the candle to the right eye, we quickly take it to the left eye, we shall find that the left image of the slip of paper gradually changes from green to red, and the right one from red to green, both of them having the same tint during the time in which the change is going on. This experiment seems to confirm the observation of doctor Brewster, that in certain highly excited states of one eye, the reverse inpression may be conveyed from the one eye to the other.-Insensibility of certain Eyes to particular Colors. Various cases have been described, in which persons

capable of performing the most delicate functions of vision are unable to distinguish particular colors, and, what is cer-, ourselves with supposing that the retina is tainly a most remarkable fact, this imperfection runs in families. A shoemaker by the name of Harris, at Allonby, in Cumberland, could only distinguish black and white. He was unable, when a child, to distinguish the cherries on a tree from the leaves, except by their shape and size. He had two brothers whose perception of colors was almost equally defective, one of whom constantly mistook orange for grass green, and light green for yellow. He had two other brothers and sisters, who, as well as his parents, had no such defect. Another case of a Mr. Scott is described by himself in the Philadelphia Transactions for 1778. He did not know any green color; a pink color and a pale blue were perfectly alike to him. A full red and a full green were so alike that He often thought them a good match; but vellows, light, dark and middle, and all degrees of blue, except pale sky-blue, he knew perfectly well; and he could discern, with particular niceness, a deficiency in any of them. A full purple and a deep blue, however, sometimes balled him. Mr. Scott's father, his maternal uncle, and one of his sisters, and her two sons, had all the same defect. Mr. Dugald Stewart, Mr. Dalton and Mr. Troughton are examples of the same inability to distinguish certain colors. Mr. Harvey has described, in the Edinburgh Transactions, the case of a tailor, now alive, and aged sixty, who could distinguish with certainty only white, yellow and gray. On one occasion, he repaired an article of dress with crimson in place of black silk; and, on another occasion, he patched the elbow of a blue coat with a piece of crimson cloth. He regarded indigo and prussian blue as black, purple as a modification of blue, while green puzzled him extremely. considered carmine, lake and crimson to be blue. The solar spectrum appeared to him to consist only of vellow and light None of the family of this person had the same defect. In these various cases, the persons are insensible to red light, and all the colors into which it onters. Mr. Dalton thinks it probable that the red light is, in these cases, absorbed by the vitreous humor, which he supposes may have a blue tint. If, which is probable, the choroid coat be essential to vision, we may ascribe the less of ned light in certain eyes to the retina itself having a blue tint. If the dissection of the eye of any person who possesses this

peculiarity shall not establish either of these two suppositions, we must content insensible to the colors at the end of the spectrum, just as the ear of certain persons has been proved by doctor Wolaston to be insensible to sounds at one extremity of the scale of musical notes, while it is perfectly sensible to all other sounds.

Optical Instruments. The impediments to the vision of very near objects arise. from two great a divergence of the rays in each pencil incident on the eye, and are . remedied by the microscope. The most powerful single microscopes are very small globules of glass, which any person may make for himself, by melting the ends of fine threads of glass in the flame of a candle; or by taking a little fine powdered glass on the point of a very small needle, and melting it into a globule before a smooth blow-pipe. It was with such microscopes as these that Leuwenhock made all his wonderful discoveries, most of which are deposited in the British museum. The double or compound microscope differs from the preceding in this respect—that it consists of at least two lenses, by one of which an image is formed within the tube of the microscope; and this image is viewed through the eye-glass instead of the object itself, as in the single microscope. In this respect, the principle is analogous to that of the telescope, only that, as the latter is intended to view distant objects, the object-lens is of a long tocus, and consequently of a moderate magnifying power, and the eye-glass of a short focus, which magnifies considerably the image made by the object-lens; whereas, the microscope being intended only for minute objects, the object-lens is consequently of a short focus, and the eyeglass, in this case, is not of so high a magnifying power. The solar microscope is a kind of camera obscura, which, in a darkened chamber, throws the image on a wall or screen. It consists of two lenses fixed opposite a hole in a board or windowshutter-one which condenses the light of the sun upon the object (which is placed between them), and the other which forms the image. There is also a plain reflector placed without, moved by a wheel and pinion, which may be so regulated as to throw the sun's rays upon the outer lens. Mr. Adam's most ingenious invention—the lucernal microscope—is also to be considered as a kind of camera obscura, only the light, in this latter case. proceeds from a lamp instead of from the

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sun, which renders it convenient to be used at all times. From what has been · said on the nature of the microscope, the principle of the telescope may be easily understood. Telescopes are of two kinds —the one depending on the principle of refraction, and called the dioptric telescope, the other on the principle of reflection, and therefore termed the reflecting telescope. (For a further account of this instrument, see Telescope.)

Inflection of Light. The direction of

Inflection of Light. The direction of the rays of light is changed, as we have seen, in their approach to certain bodies, by reflection and refraction; and, consequently, we must admit that there is some power in these bodies by which such effects are universally produced. If reflection was produced simply by the impinging of particles of light on hard or clastic bodies, or if they were in them-' selves clastic, the same effects would follow as in the impulse of other elastic bodries; but the angle of incidence could not be equal to the angle of reflection, unless the particles of light were perfectly elastic, or the bodies on which they impinged were perfectly elastic. Now, we know that the bodies on which these particles impinge are not perfectly clastic; and also that, if the particles of light were perfeetly clastic, the diffusion of light from the reflecting bodies would be very different from its present appearance; for, as no body can be perfectly polished, the particles of light, which are so inconceivably small, would be reflected back by the inequalities on the surface in every direction; consequently we are led to this conclusion-that the reflecting bodies are possessed of a power which acts at some little distance from their surfaces. If this reasoning is allowed to be just, it necessarily follows that, it a ray of light, instead of impinging on a body, should pass so near to it as to be within the sphere of that power which the body possesses, it must pecessarily suffer a change in its di-Actual experiments confirm the rection. truth of this position; and to the change in the direction of a particle of light, owing to its nearness to a body, we give the name of inflection. From one of these experiments, made by sir Isaac Newton, the whole of this subject will be easily understood. At the distance of two or , three feet from the window of a darkened room, in which was a hole three fourths of an inch broad to admit the light, he placed a black sheet of pasteboard, having in the middle a hole about a quarter of au inch square, and behind the hole the blade

of a sharp knife, to intercept a small part of the light which would otherwise have passed through the hole. The planes of the pasteboard and blade were parallel to each other; and, when the pasteboard was removed at such a distance from the window as that all the light coming into the room must pass through the hole in the pasteboard, he received what came through this hole on a piece of paper, two or three feet beyond the knife, and perceived two' streams of faint light shooting out both ways from the beam of light into the shadow. As the brightness of the direct rays obscured the fainter light, by making a hole in his paper, he let them pass through, and had thus an opportunity of attending closely to the two streams, which were nearly equal in length. breadth, and quantity of light. That part which was nearest to the sun's direct light was pretty strong for the space of about a quarter of an inch, decreasing gradually till it became imperceptible; and, at the edge of the knife, it subtended an angle of about 12°, or at mest 14°. Another knife was then placed opposite to the former, and he observed that, when the distance of their edges was about the To the part of an inch, the stream divided inthe middle, and left a shadow between the two parts, which was so dark that all light passing between the knives seemed to be bent aside to one knife or the other. As the knives were brought nearer to each other, this shadow grew broader, till; upon the contact of the knives, the whole light Pursuing his observations disappeared. upon this appearance, he perceived fringes, as they may be termed, of different colored light, three made on one side by the edge of one knife, and three on the other side by the edge of the other; and thence concluded that, as, in refraction, the rays of light are differently acted upon, so are they at a distance from bodies by inflection; and by many other experiments of the same kind, he supported his position, which is confirmed by all subsequent experiments. We may naturally conclude that, from this property of inflection, some curious changes will be produced in the appearance of external objects. If we take a piece of wire of a less diameter than the pupil of the eye, and place it between the eye and a distant object, the latter will appear magnified; for the rays by which the object, would have been otherwise seen are intercepted by the wire, and it is now seen by inflected rays, which make a greater angle than the direct

Natural Phenomena. The most interesting of these is the rainbow, which con- tion of drops of rain of different sizes. across the part of the sky, which is opposite to the sun. The innermost of the bows and which is most commonly seen by itself, it being the principal rainbow, is part of a circle whose diameter is 82°, and is nothing more than an infinite number of prismatic spectra of the sun arranged in the circumference of a circle, the colors being the very same, and occupying the same space as in the spectrum produced from the sun's light. The red rays form the outer fost portion, and the violet rays the innermost portion of the bow. The external or secondary bow is much fainter than the other, and has the violet outermost and the red invermost. It is part of a circle 104° in diameter. As the rainbow is never seen unless when the sun is shining, and when rain is falling between the spectator and the part of the horizon where the bow is seen, it is obvious that it depends upon the decomposition of the white light of the sun, by the refraction of the drops of rain and their subsequent reflection within the drops—an explanation sufficiently adequate, from the fact that rainbows are produced by the spray of waterfalls, and may be made artificially by scattering water with a brush or syringe when the sun is shining. The primary bow is the effect of one reflection and two refractions of the sun's rays by the drops of rain: the secondary one is formed by two reflections and two reflections. Within the primary rainbow, and immediately in contact with it, there have been seen what are called supernumerary rainbows, each of which consists of red and green. Their origin has not been explained. Lunar rainbows have been seen; but they differ in no respect from those formed by the solar rays, excepting in the faintness of their light. A halo is a circle, either composed of white light, or consisting of the prismatic colors, which is occasionally seen round the sun or moon. Parhelia are mock suns, which appear at places where two haloes or arches of luminous circles about the sun intersect each other. The prismatic haloes which are sometimes visible about the sun and moon, in fine weather, when white, thin, fleecy iclouds are floating in the atmosphere, are called corona. Owing to the dazzling , effect of the sun's rays, the haloes which surround his disk may be seen to most udvantage by reflection in a pool of water. These phenomena are attributed to the crystals of ice and snow floating in the

atmosphere, and, in some cases, to the acsists of two bows, or arches, extended . The elevation of coasts, ships and mountains above their usual level, when seen in the distant horizon, has been long known and described under the name of looning. The name of mirage has been applied by . the French to the same class of phenomena'; and the appellation of fata morgana has been bestowed by the Italians to the singular appearances of the same kind, which have repeatedly been seen in the straits of Messina. When the rising sun throws his rays at an angle of 45° on the sea of Reggio, and neither wind nor rain rufile the smooth surface of the water in the bay, the spectator, on an eminence in the city, who places his back to the sun and his face to the sea, observes, as it were upon its surface, numberless series. of pilasters, arches and eastles distinctly defineated; regular columns, lofty towers, superb palaces, with balconies and windows; extended valleys of trees, delightful plains, with herds and flocks; armies of men on foot and horseback, and many other strange figures, in their natural colors and proper actions, passing one another in rapid succession. When vapors and dense exhalations, rising to the height of about twenty feet, appear, then the same objects are seen depicted, as it were in the vapor, and suspended in the air, though with less distinctness than before. Captain Scoresby, when navigating the Northern seas, was able to recognise his father's ship when below the horizon, from the inverted image of it which appeared in the air. "It was," says he, "so well defined, that I could distinguish, by a telescope, every sail, the general rig of the ship, and its particular character, insomuch that I confidently pronounced it to be my father's ship, the Fame, which it afterwards proved to be; though, in comparing notes with my father, I found that our relative position at the time gave our distance from one another very nearly 30 miles, being about 17 miles beyond the horizon, and some leagues beyond the limit of direct vision." In the sandy plains of Egypt the mirage is seen to great advantage. These plains are often interrupted by small eminences, upon which the inhabitants have built their villages, in order to escape the inundations of the Nile. In the morning and evening, objects are seen in their natural form and position; but where the surface of the sandy ground is heated by the sun, the land seems terminated, at a particular distance, by a general inundation, the vil-

lages beyond it appearing like so many · islands in a great lake, and between each village an inverted image of it is seen. This optical deception has been noticed from the remotest times. The prophet Isaiah alludes to it, when he says, " and the parched ground shall become a pool." The cause of these phenomena consists in variations in the refractive power of the atmosphere, which may be proved by actual experiment. This has been done in a variety of ways; but we shall only mention the method adopted by doctor Brewster. He held a heated iron above a mass of water bounded by parallel plates of glass: as the heat descended slowly through the fluid, a regular variation of density, diminishing from the bottom to the surface, took place. On withdrawing the heated iron, and putting a cold body in its place, or even on allowing the air to act alone, the superficial stratum of water gave out its heat so as to produce a decrease of density, from the surface to a certain depth below it. Through the medium thus constituted, the phenomenon of the mirage was observable in the finest manner.—Colors of the Atmosphere. the earth is surrounded with an atmosphere, varying in density from the surface of the globe, where it is the densest, to the height of about 45 miles, where it is extremely rare, and just able to reflect the rays of the setting sun, the rays of the sun, moon and stars are refracted into curve lines, unless when they are incident upon it perpendicularly. Hence the apparentaltitude of the celestial bodies is always greater than their real altitude, and they appear above the horizon when they are actually below it. But while the solar rays traverse the 'carth's atmosphere, they suffer another change from the resisting medium which they encounter. When the sun, or any of the heavenly bodies, is considerably elevated above the horizon, its light is transmitted to the earth without any perceptible change; but when these bodies are near the horizon, their light must pass through a long tract of air, and is considerably modified before it reaches the eye of the observer. The momentum of the red, or greatest refrangible rays, being greater than the momentum of the violet. or least refrangible rays, the former will force their way through the resisting medium, while the latter will be either reflected or absorbed. A white beam of light will therefore be deprived of a portion of its blue rays by its horizontal passage through the atmosphere, and the resulting color will be either orange or

med, according to the quantity of the least refrangible rays that have been stopt in their course; hence the rich and brilliant hue with which nature is gilded by the setting sun, and hence the glowing red which tinges the morning and evening We have already seen that the red cloud. rays penetrate through the atmosphere, while the blue rays, less able to surmount the resistance which they meet, are reflected or absorbed in their passage. It is to this cause that we must ascribe the blue color of the sky, and the bright azure which tinges the mountains of the distant As we ascend in the atlandscape. mosphere, the deepness of the blue tinge dies away; and to the acronaut who has soared, above the denser strata, or to the traveller who has ascended the Alps or the Andes, the sky appears of a deep black, while the blue rays find a ready passage through the attenuated strata of the atmosphere. It is owing to the same cause, that the diver at the bottom of the sea is surrounded with the red light which has pierced through the superincumbent thuid, and that the blue rays are reflected from the surface of the ocean. Were it not for the reflecting power of the air, and of the clouds which float in the lower: regions of the atmosphere, we should be a involved in total darkness by the setting of the sun, and all the objects around us would suffer a total eclipse by every cloud that passed over his disk. It is to the multiplied reflections which the light of the sun suffers in the almosphere that we are indebted for the light of day, when the earth is enveloped with impendirable clouds. From the same cause arises the sober line of the morning and evening twilight, which increases as we recede from the equator, till it blesses with perpetual day the inhabitants of the polar regions.-Colored Shadows. The shadows of bodies placed only in one light, and at ? a distance from all other bodies capable of reflecting light, must necessarily be black. In a summer morning, or evening, however, the shadows of bodies formed (either by the light of the stu, or by that of a candle, have been observed to be blue: this obviously arises from the shadows being illuminated with the light of the blue sky. The colors thus produced vary in different countries, and at different seasons of the year, from a pale blue to a violet black; and when there are yellow ' vapors in the horizon, or yellow light reflected from the lower part of the sky, either at sunrise or at sunset, the shadows have a tinge of green, arising from the

blue tint of the shudow. If the light of the sun or of the candle be faint, then the shadow of the body, formed by the light of the sky, will be visible also, and the two shades will be the one blue and the other a pale yellow. This fact has been ascribed to the circumstance of the light of the candle and that of the rising and setting sun being of a yellowish tinge; but though this will increase the effect, it is not the main cause of it as one of the shadows would be yellow, even if the light of the sun and the candle had been perfectly white. The phenomena of colored shadows are sometimes finely seen in the interior of a room, the source of one of the colors being sometimes the blue sky, and the other the green window blinds, the painted walls, or the colored furniture.—Converging and diverging Beams. When the sun is descending in the west, through masses of open clouds, the diverging of his beams, rendered visible by their passage through numerous openings, forms frequently a very beautiful phenomenon. It is sometimes accompanied with one of an opposite kind, viz. the convergency of beans to a point in the eastern norizon opposite to the sun, and as far beneath the horizon as the sun is above it, as if another sun, throwing out divergent peams, were about to rise in the cast. This phenomenon is rarely seen in perfection, and has never been observed until within a few years. In order to explain it, let us suppose a line to join the eye of the observer and the sun. Let beams issue from ac sun in all possible directions, and let us suppose that planes pass through these beams, and through the line joining the die of the observer and the sun, which will be their common intersection, like the axis of an orange, or the axis of the earth, , through which there pass all the scpta of the former, and all the planes passing through the meridians of the latter. An eye, therefore, situated in this line, or common intersection of all the planes, will, when looking at a concave sky, apparently spherical, see them diverging from the sun on one side, and converging towards the opposite point, just as an eye in the axis of a large globe would perceive all the planes passing through the meridians diverging on one side and converging on another.

OPTIMATES, with the Romans; the arty of the nobility (tories), in contradis-· unction to the populares (men of the people—liberals).

union of these accidental rays with the ligious opinion which maintains that this world, in spite of its apparent imperfections, is the best, and could not be otherwise than it is. Even the Stoics and Plotinus were of this opinion. name, however, is chiefly given to the doctrine of Leibnitz-that God has among the possible worlds which presented themselves to his understanding, chosen and created the best. Leibnitz developed this doctrine in his Theodicea, particularly with reference to the doubts and objections of Bayle, on account of the evil in the world. and showed that what appears imperfect considered by itself, is by no means inperfect considered with regard to the whole, and that the single parts are the best when considered in their connexion This philosophical docwith the whole. trine was generally reduced to the di-lenima—If this world were not the best, God either did not know a better one, or was unable or unwilling to create itsuppositions which impugn his omniscience, omnipotence or perfect benevo-Hence the inference was, that this world must be considered the best. (See Leonh. Creuzer, Leibnitii Doctrina de Mundo optimo; see, also, the article Candide.)

Oracles; responses given by persons who pretended to divine inspiration; also the places where the responses were uttered with certain prescribed ceremonies. There is not a sufficient stock of trustworthy information from antiquity to determine their origin or nature. origin of the Egyptian oracles is dated at a period to which not even traditions, and much less historical monuments, extend. , The oldest was that at Meroë; next, those at Thebes and Ammonium. In each of these places, Jupiter Ammon was the presiding deity. The oracle at Dodona (q. v.), the oldest in Greece, was formed on the model of the last mentioned, but united the Egyptian and Pelasgian character. The account given by Herodotus of the origin of the Pelasgian oracle, shows that a colony from Africa attempted, by such an institution, to establish themselves in Greece. But a sacred tree in this place was, at an earlier period, oracular, and the rustling of its branches had been received as responses: consecrated women from Africa (prophetesses, the black doves of Herodotus) only dedicated this Pelasgian oracle to Jupiter Ammon. According to Ritter, the oracle of Dodona (formerly Bodona) points to the service of Buddha. Of equal antiquity, perhaps, was the oracle. OPTIMISM; that philosophical and re-, in Bostia, which first belonged to the

Earth, then to Themis, and afterwards was transferred to Apollo. Still later was instituted the oracle at Delphi (q. v.), which became the most important of all, partly from its favorable situation, and partly from its connexion with the council of the Amphictyons, at Pylas. Besides, Jupiter had an oracle at Elis, at Pisa, and in a subterranean cave in Crete; and Apollo at Delos, where the whispering of the trees gayo responses, at Miletus, where a sacred fountain, at Claros, not far from Colophon, where a consecrated river, inspired the priests, and many others. In addition to these, the oracle of Trophonius, at Lebadia, in Bootia, and that of Amphiarans, at Oropus, on the borders of Attica and Bocotia, were in high reputation in Grecce. Juno had an oracle in the Corinthian territory; Hercules, at Bura, in Achaia, where answers were given by throwing dice; Bacchus, at Amphiclea, in Phocis, which returned answers in dreams, Tzetzes mentions an oracle of Ulysses; and other heroes and prophets had theirs. The Romans had no domestic oracles, if we except the Albunea, the Cumean Sibyl, the Sibylline books, the oracle of Faunus and of Fortuna at Praneste (which belong to the earliest times, and afterwards lost their reputation), but had recourse to those of Greece and Egypt. In the founding of cities and colonies, the introduction of new governments, the undertaking of important enterprises, both in war and peace, and particularly in all cases of great necessity, the oracles were consulted, and rich gifts presented to them; their priests needed great watchfulness and prodence not to expose themselves. Darkness and ambiguity in the responses was the common resource. Sometimes, however, there were obvious failures. But, notwithstanding these, and notwithstanding well-known instances of corruption, they long maintained their standing, and sunk only with the freedom and independence of Greece. Under the reign of Theodosius, the temples of the prophetic deities were shut up or demolished. Dale and Fontenelle thought to explain the whole system of oracular responses by priestly management, founded on the popular delusion. Others have thought this insufficient to account for the fact that the wisest men in a refined nation received. them as sacred for centuries, as in Greece. -See Clavier's Mémoire sur les Oracles des Anciens (1819).

ORAMA, DIORAMA. (See Panorama.)
ORANGE (citrus aurantium); a low, evergreen, branching tree, bearing oblong,
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oval, acute, smooth and shining leaves, inserted on winged leafistalks, by which character it is easily distinguished from the lemon. The flowers are white, containing about twenty stamens, and are disposed in clusters of from two to six upon a common peduncle. The fruit is globose, bright yellow, and contains a pulp, which consists of a collection of oblong vesicles filled with a sugary and . refreshing juice: it is, besides, divided into eight or ten compartments, each coutaining several seeds. The principal varietics are the sweet or China, and the bitter or Seville orange; the Maltese orange is also deserving of notice, from its red pulp. Though now extensively cultivated in the south of Europe, the introduction of the orange is of modern date, and it was unknown in that continent till about the beginning of the fifteenth century. At the present time, it forms an extensive branch of commerce between the Mediterranean and the more northern It is exceedingly long-lived, and is still esteemed young at the age of a 3 century. An essential oil is obtained from the flowers, which is hardly less esteemed than the celebrated oftar of Bergamot is a well-known perroses. fume, obtained from the rind of a variety of the orange, and has received the name. from the town of Bergamo, in Italy, where this variety is much cultivated. The wood of this tree is fine-grained, compact, susceptible of a fine polish, and is employed in the arts. The orange, together with the lemon, citron, lime, shaddock, and indeed almost the entire family aurontiacea, is a native of tropical Asia and the East Indi A singular exception found in our own country: a species of orange, bearing fruit of a very agreeable flavor, is extremely abundant in East Florida, and, according to the testimony, of scientific travellers, is undoubtedly native: it has not, however, been accurately compared with other species, and, what is . more remarkable, although mentioned by carly travellers, has not hitherto found its way into systematic works on our botany.

Orange; an ancient principality in France, which, from the eleventh to the sixteenth century, had its own princes. Philibert of Châlous, the last prince, having died, without issue, in 1531, the principality passed, through his sister (who was married to the count of Nassau, to the house of Nassau. It continued in this family till the death (1702) of William Henry of Nassau-Orange (William III of England), when the succession became

the subject of a long contest. The prin- commenced when sacred music was discipal claimants were Frederic William I, mother), and the prince of Nassau-Dietz, smitholder of Friesland (who claimed by the will of William III). The king of Prussia, notwithstanding the protest of the other claimants, ceded the principality, by the peace of Utrecht (1713), to France. The reigning dynasty of the Netherlands is of the house of Orange, and the heirapparent bears the title of prince of Orange. In November, 1830, the national congress of Belgium declared the 'house of Orange-Nassau to be forever excluded from all power in Belgium. (See Maurice, William III, William I (prince of Orange), William I (king of the Netherlands), Nassau, and Netherlands.) erlands), Nassau, and Orange, the capital of the principality, an old city, known to the Romans under the name of Arausio, contains, at present, 8864 inhabitants. It is situated on the Meyne, in the department of Vaucluse, five leagues north of Avignon.

ORANGEMEN; the name given by the Catholies in Ireland to their Protestant countr, ich, on account of their adher-ence to the house of Orange. Tyrconnel, who had been appointed lord-lieutenant of Ireland by James II (q. v.), attempted 5 to hold the island for his master, and was supported in this design by the Catholics, while the Protestants declared for William. (q. v.) The battle of the Boyne (1690) gave the superiority to the latter, and the Catholics were exposed to the most cruel treathient, in addition to being subjected to heavy civil and religious disabilities. (See Catholic Emancipation.) An attempt lodges, in opposition to the Catholic Asso-ciation, during the present century.

ORATORIO; a musical drama of a dignified character, which is destined only for musical execution, not for theatrical action. ... Hence, on the part of the poetry, it requires, though not in the strict sense of · the theatrical drama, the representation of 'an action or event, either immediately by the persons concerned in the action or eyent; or mediately by those who nurrate the circumstances, and by the chorus at intervals, in which the whole body of individuals concerned express their feelings in music. The subject should be of a noble character (as, for example, the Creation), and the music adapted to express various elevated and tender affections. Oratorios are generally on religious subjects, particularly biblical histories and events. The oratorio, properly speaking.

tinctly separated from worldly. It had its king of Prussia (who claimed through his origin partly in the songs and alternating choruses of the Christian pilgrims, who sung on their pilgrimages, in the time of the crusades, of the life and death of the Redeemer, the last judgment, and other religious subjects, in the streets and public places; and partly in the mysteries, or dramatic representations of sacred narratives. As early as 1243, a spirituale commedia was performed in Padua. St. Philip of Neri (born at Florence, 1515, and died at Rome, in 1595), the founder of the congregation of priests of the oratorio, is regarded as the person who first instituted regular oratories about the year 1540, in order to direct the fondness for the musical drama to religious subjects. The oratorios were then little more than hynnis accompanied by instrumental music, whence they first appeared in Rome under the name of laudi spirituali. The recitative (q. v.), or musical narration, was invented afterwards. At first, however, the oratorios were narratives, rather than dramas, for an actor related the story to the spectators, and detailed the principal points; and only a few musical passages were performed, by which the feeling appropriate to the different situations was expressed. These performances in sacred music obtained the name of oratories in the middle of the seventeenth century, either from the congregation before spoken of, or from the church where they were executed. Emilio del Cavalieri (about 1590) composed oratorios with recitatives. In the seventeenth century, the bratorio, as well as the opera, became developed in its poetical and musical form? The first oratorios had short choruses, in simple counterpoint; but, in the second half of the seventeenth century, it was customary to conclude with a duet every separate portion of an oratorio, which generally occupied about an hour in the performance. In the beginning of the eighteenth ceutury, Pariati, the Jesuit Ceva, Lel. Orsini, Spagna, Zeno, and Metastasio, wrote oratories, and Caldara, omelli, Lco, i aononcini, composed the music. A more cle vated Character was given to the oratorio by Handel, who devoted all his power to the chorus till 1732. Haydn distinguished himself by richness of description, and he introduced worldly subjects and music into the oratorio.—Oratorio signifies, likewise, a place of prayer, especially in monasteries.

ORATORY, PRIESTS OF THE; a religious order founded by Philip Neri (q. v.), in 1574, for the study of theology, and for superintending the religious exercises of the devout. The members are not bound by the monastic vows. In Italy, the order still exists; but the more important congregation of the fathers of the oratory of Jesus in France—which was founded in 1611, at Paris, and has contained several distinguished members, as the philosopher Malebranche, the Orientalist Morin, and the liberal theologian Richard Simon is no longer in existence. The Italian order follows, as did the French, the rule of St. Augustine.

Orbitius Pupillus; a grammarian of Beneventum, who taught in Rome during Cicero's consulship. He has acquired celebrity by the mention which Horace has made of him (Ep. II, 1, 70), as the plugosus Orbilius (the flogging Orbilius).

OBBITS OF THE PLANETS. (See Astronomy, vol. i, pages 435 and 436, also the articles Kepler and Planets.)

ORCADES. (See Orkney Islands.)

Orditall, or Argol. (rocella finctoria); a species of lichen, celebrated for yielding a fine purple color, which is employed in dyeing. It is chiefly obtained, in commerce, from the Canaries, Cape Verd islands, and the Grecian archipelago. It is the substance generally employed for coloring the spirits of thermometers; and it is a remarkable circumstance that, after the color has been destroyed by time, it is again restored on breaking the tubes.

ORCHAN. (See Olloman Empire.)

ORCHESTRA; the space in theatres between the seats of the spectators and the stage, appropriated by the Greeks to the chorus and the musicians, by the Romans to the senators, and by the moderns to the musicians. It is also used for the part of concert-rooms assigned to the musicians, and, lastly, for all the instruments performing together in modern concerts, operus, or sacred music. (See Architecture, vol. i, page 341.)

ORCHESTRICS; the same as δρχησις (q. v.,

in the article Dancing).

ORCO RIVER, CASCADE OF. (See Cularact)

Orcus; the same as Hades; or Pluto; thence, also, the kingdom of Pluto (the infernal regions). (See Pluto, and Tartarus.)

Ordeal. It was formerly believed by almost all nations, that, when proofs of right or wrong, innocence or guilt, were wanting, the God of truth and justice would himself interpose, and make known the truth by a mirucle. In accordance with this opinion, a person suspected of any crime was made to perform solemnly

before the priests certain acts which would, in the natural course of things, be injurious to him; and if he escaped unhurt, he was declared to be innocent. These processes were called ardeals, or judgments of God, and were in use par-ticularly among the Germans. They are found also in the ancient sacred writings. of the Hindoos. As success or failure, except in a few cases, depended on those who made the requisite preparations, a wide field was opened to deceit and malice, especially of the priests.-The following ordeals were in use in Germany and England:—The judicial duel, in which the conquered was viewed as guilty; the ordeal of fire; the ordeal of water; the hallowed morsel; the trial of the eucharist; the judgment of the cross; and the trial of the bier. In criminalcases, where the perpetrators of the deed could not the discovered, these ordeals were applied; some of them even in civil cases, so that the defendant could free himself in this way from claims or charges not sufficiently substantiated. Even among the Celts, children whose mothers were suspected of adultery, were placed in a shield on the Rhille, and if they sunk, it was inferred that the suspicion was correct. The Salian Franks, at the beginning of the fifth century, used the ordeal of hot water, and the ordeal of cold water was introduced afterwards. After the introduction of Christianity, the use of ordeals soon became general; for the oath of purgation was but little, if at all, known, and by means of ordeals an opportunity was given to the clergy to subject legal trials of every kind to their own decisions, and thus to increase their The ordeal of fire was as authority. follows:-The accused was compelled to walk barefooted over glowing coals, or over nine red-hot ploughshares, or to carry a red-hot iron in his naked hand a considerable distance; or else glowing coals were kild upon his feet, or he was made to walk through fire: in the last trial, the accused was often dressed in a robe covcred with wax (the trial of the waxen shirt); if he was unhurt by the fire, it was regarded as a proof of his innocence. In other cases, a priest put the hallowed, morsel into the mouth of the accused, with various imprecations. This was called the "trial by the hallowed bread or cheese." If the accused swallowed it instantly, and felt no sensation of sickness or pain, he was freed from punishment. The trial of the eucharist was used chiefly among the clergy and monks.

took the sacrament in attestation of their innocence, and it was believed that God would immediately smite the guilty with sickness or death. The trial of the cross was of two kinds. Both the accuser and the accused were placed uniler the cross with their arms extended or crosswise, and the one was condemned who first moved his hands or suffered them to fall. Or else the supposed criminal was conducted into a church, or placed before relics. Two dice were then produced, one of which was previously marked with a cross. Of these, one was taken up at hazard. If it happened to be the die having the sign of the cross, the accused was exempted from punishment. Finally, and, indeed, from the earliest times, the trial of the ouer was used in the crime of murder; that is, the murdered person was placed upon a bar, and the supposed perpetrator made to touch the body, especially the wounds. If blood flowed out, or foam appeared at the mouth, or the dead body altered its position, the suspected person was considered guilty. Sometimes, instead of the whole body, only the hand was taken. Superstition and artifice gays to these absurd ceremonies the highest authority; and even the prohibitions of enlightened emperors from the time of Louis the Pious till the ninth century, were insufficient to abolish them. The papal chair had more influence in restraining them by frequent denunciations, and by the introduction of an improved judicial system. Indeed, many rulers and magistrates saw their absurdity. Hence, after the fourteenth century, ordeals be-came more uncommon, and in the fifteenth, they were wholly put down by the increasing use of the canon law, which invented new means for the removal of suspicion, especially the oath of purgation, and still more by the universal use of the Roman law. In the sixteenth century, only the trial of the bier was used, and this continued even into the first part of the eighteenth. In consequence of the still prevalent belief in sorcery, the ordeal by cold water was also retained in the The supposed witches trials of witches. were placed in the water, and if they floated they were declared guilty. sides this ordeal (found in Prussia in the seventeenth century, and in the neighboring countries in the first half of the eighteenth), there was also the weighing of witches: they were weighed, and if they were found to be uncommonly light, they were pronounced guilty. These foolish customs were gradually done away, when ampulla, which Clovis I founded in the

Thomasius succeeded in almost wholly annihilating the belief in witches. serves to be mentioned as a singular circumstance, that, as lately as 1728, several witches were weighed at Szegedin, in Hungary. With the exception of these few relics of ordeals, the end of the fifteenth and the beginning of the sixteenth century are to be regarded as the closing period of them in Europe. But it is to be lamented that the Roman law substituted in their place an equally horrid process in criminal cases, viz. the torture, which was originally applied only to slaves, but afterwards to freemen also. Ordeals are still found in many nations out of Europe. Thus the Senegambians, in Africa, apply a red-het arm to the tongue of a person suspected of crime. Some negroes, on the coast of Guinea, put into the hands of the accused herbs and barks of a peculiar character, and suppose they have the property of burning the guilty. The natives of Pegu and Siam have the ordeal of cold water. The Tschuwasses and Ostiacks, in Russia in Asia, connect the trial of the consecratel morsel with an eath. The Chi nese have the ordeals by fire and water but the chief ordeals are among the Hindoos, in Congo and other places.

ORDERICUS VITALIS, a historian of the twelfth century, of a French family, but born in England, at the age of ten was sent for education to an abbey in Normandy. He entered into the order of priesthood, but devoted his life to literary studies. He died after 1143. He wrote an Ecclesiastical History, in thirteen books, published in Duchesne's Historiæ Norman. Scrip., and in other collections.

ORDERS IN COUNCIL. (See Privy Council.)

ORDERS, MILITARY. The secular military orders are societies established by princes, the members of which are distinguished by particular badges, and consist of persons who have done particular services to the prince and state, or who enjoy, by the privileges of birth, the highest distinctions in the state. Thev originated from the institutions of chivalry and the ecclesiastical corporations, and were, in the beginning, fraternities of men, who, in addition to particular duties en-joined by the law of honor, united for the performance of patriotic or Christian pur-poses. Free birth and an irreproachable life were the conditions of admission. The oldest Christian orders of which mention is made, are the order sancta

vear 499, the order of the oak, which Garcias Ximenes, king of Navarre, founded in 722, and the order of the genet (de la genette), founded by Charles Martel. in 726; of which, however, the two first are uncertain. The first orders after these arose during the time of the crusades, and were an example for all future orders. From societies established, under certain rules, for the care of sick persons, as well as the diffusion and support of the Christian religion, first proceeded the religious military orders, of which the oldest is the order of St. John of Jerusalem. Their laws were similar to the rules of the monastic orders. The pope's confirmation was essential to their establishment, and he was in a manner their head; their superiors and masters, however, were chosen by themselves, by a majority of voices. On their model the secular military orders were formed in later times, which united religious with military exercises. They also bore outward badges, as the religious orders had done in earlier times, after the example of the crusaders. This, with the religious military orders, was most commonly a cross; which the secular adopted also; differing, however, from the simple emblems of their spiritual brothren by the intermixture of worldly ornaments, by a diversity of colors, precious stones and precious metals. The and sanctity to the monastic life, was subsequent period made changes therein, and added ribands and stars. But the original pious object of these orders was also changed, and they acquired by degrees their present character. The stat-. utes, indeed, sometimes speak of the defence of the Christian faith, and similar pious objects; but those precepts are not carried into effect.-See Perror's Collect. histor, des Ordres de Chevalerie civils et militaires, &c., with forty colored copperplates (Paris, 1820, 4to.); Wippel's Die Ritterorden, ein tabell, chronol.-liter.-hist. Verzeichniss über alle weltlichen Ritterorden (2 vols., Berlin, 1817 and 1819, 4to.).

ORDERS OF ARCHITECTURE. (See

Architecture, vol. i, p. 340.)

Orders, Religious, are associations bound to lead strict and devotional lives, and to live separate from the world. They are subjected to a perpetual obligation to their monastic vows (q. v.), or the rules of their order. (See Monastery.) The monks and nuns of the East, particularly of the Greek church, follow the rules of St. Basil, as do also the Basilians in Spam. In the Roman church, on the contrary, the fundamental rules of the monasteries were : drawn up by St. Benedict of Norcia, who

is to be regarded as the first founder of a spiritual order. The monasteries of the Eastern churches bear the names of their common founders and guardian saints, but without being so closely united to one another as the members of spiritual orders in the West. According to the rules of St. Benctlict, the principal vows to be assumed by every novice after a year's probation are those which enjoin the duty of prayer at certain hours of the day, labor, perpetual celibacy, and a renunciation of the pleasures of the world, unconditional obedience to the superiors of the order, and constant residence in the monastery. Asthese rules and the black cowl were common to almost all the monks and huns in the West, from the sixth to the beginning of the tenth century, the Benedictine order may be regarded as the only one existing during that period. Still, however, the monasterics belonging to it were under the government of bishops, with no common superiors, and were divided into several congregations, differing by a more or less strict observance of their rules; for example, the Benedictines of Clugny, of Monte-Casino, of Monte-Vergine, of Monte-Oliveto (Olivetans), of Valladolid, of St. Vannes, of St. Maurus, of Mölk, &c. (See Benedictines.) The desire to give more strictness manifest in the middle ages, by the establishment of new rules, founded on those of St. Benedict. Thus arose the Camaldulians, the gray monks of Vallombrosa, the Silvestrines, the Grand-montanists, the Carthusians, the Celestines, the Cistercians, the Bernardines, Feuillans, Recollets, the nuns of Port Royal, and the Trappists, and the order of Fonteyraud (q. v.). The reputed rules of St. Augustine were adopted by a large number of religious orders. Augustine had united only the clergy of his cathedral, and several other churches of his diocess, to lead a canonical life; that is, a life of celibacy, poverty, seclusion, and formal devotion at certain prescribed hours; but he never had an idea of founding an or-Moreover, the monks, der of monks. who were reckoned among the laity in the seventh century, could not adopt the rules of Augustine, which were first designed for the clergy. But; in the eighth century, they began to be viewed as mem-bers of the clerical order, and in the tenth, by receiving permission to assume the tonsure, they were formally declared clorgymen. Indeed, public opinion and several papal bulls placed them.

as superior in sanctity, above the secular of St. Augustine, and dressed in the black clergy, who, for this reason, often became monks, or formed associations for the performance of monastic vows, and leading canonical lives. Of this description are the canons regular, whose constitution was formed on the rules of St. Augustine; for example, the monks of St. Savior in the Lateran, of the Holy Sepulchre, of St. Genevieve, &c. The Premonstratenses, Augustines, Servites, Hieronymites or Jeronymites, Jesuates and Brigittins are regular orders, according to the rules of St. Augustine. Under the class of regular orders, but more devoted, according to the ancient ideas of monastic life, to silent contemplation, and secluded from the world, are included also the peculiarly constituted Carnelites. The Trinitarians or Mathurines and the order of Grace showed more inclination to serve the world. But love of hierarchal importance, and influence over the world, was the prominent characteristic of the Mendicants, an order of Dominicans (preaching monks, Jacobins), established in the beginning of the thirteenth century, and of the Franciscans (Minorites, Conventuals, Observantines, Carsarines, Amadeists, nuns of St. Clare, Spirituals, Eremites or Celestines, Fraticelli, Alcantarines, Cordeliers, Capuchins); from which the Minims or Paulanites, who belong to the same class, are distinguished by their devotion to a silent, contemplative life. The Dominicans and Franciscans received from the popes certain immunities which are known as the privileges of mendicant friars, and they were afterwards granted in part to the Carmelites, Augustines, Servites and Paulanites. They consisted in freedom from all secular and episcopal jurisdiction; in the privilege of demanding alms of every body out of the monasteries; in authority to preach every where, without regard to the parochial rights of the priests; to hear confessions, to read masses, and sell papal indulgences. These immunities served as a componsation for the strictness with which they were forbidden, by their ancient rules, to possess any property. Although the establishment of new orders of monks had been expressly prohibited by some councils, several new institutions of this nature, which a disc after the beginning of the six-teental century, were able, by promising to devote their exertions to the common good, to procure the approbation of the pope, and thus to escape the probibition, provided that they did not pass for new orders of monks, but called themselves regular canons

garb of the secular clergy. The immense loss which was sustained by the ancient orders, in consequence of the reformation. induced the popes zealously to encourage these establishments. To this rubric belong the Theatines, the Barnabites, the Somaskians; in France, the Priests and Fathers of the Oratory, the Lazarists, Bartholomeans, Piarists, and the Brethren of Mercy. As the secluded life of the monks. soon after the origin of monasteries, had. given rise to similar associations of pious females, so nuns commonly banded together as new orders of monks arose, and formed societies under similar names and There were Benedictine, regulations. Camaldulian, Carthusian, Cistercian, Augustine, Præmonstratensian, Carmelite, Trinitarian, Dominican, Franciscan, Paulanite nuns, and many orders of regular canonesses, whose monastic vows and the color of their dresses corresponded with those of the male branches; but they were excluded from the priestly influence which the monks were able to exercise. 'The male branch of an order is denominated the first order, and the female the second; thus the Capuchin friars belonged to the first order, and the Capuchin muss to the second order of St. Francis. There were also congregations of nuns, who united with certain orders of monks, without adopting their names; as the Urbanist nuns, the nuns of the Conception of the Blessed Virgin, in Italy and Spain, and the nuns of the Annunciation of Mary, who belonged to the second order of St. Francis, and the English sisters, who followed the rule of the Barnabites. The nuns of the penance of St. Magdalen (q. v.), the Salesian nuns, the celestial Annunciada, the Ursuline and Hospitaller Nuns, or Sisters of Mercy, are female orders existing judependently of any male orders, and living according to the rules of St. Augus-Besides the nuns composing the second order, almost all the important religious orders received new accessions in the lay brethren (fratres barbati, or conversi) and lay sisters, who were taken to perform the necessary labors of the monasteries, and to manage their intercourse with the world, in order that the choristers, that is, the proper religious, who performed the appointed prayers in the choirs of the churches, might not be distracted in their studies and devotions. The first example of this arrangement was given by the order of Vallombrosa, and soon imitated in the monasteries of other orders. It became gradually an instru-

ment of considerably increasing the power and influence of the monastic institution. Under the name of offerings and presents, vast numbers devoted themselves. their property, and their influence, to the service of religious orders, without for-mally becoming members of them. Whole families, married persons of all ranks, in this way made themselves dependent on the regular clergy; and, as they imagined that they should thus gain nearer access to heaven, the connexion appeared to them desirable, though it was attended with the heaviest sacrifices. St. Francis of Assisi first gave this relation of dependence a distinct form. He united the laymen, who wished to associate with the brethren of his order, without becoming clergymen, into a particular society, under the name of the third order of Minorites. After this model were formed (besides all the mendicant orders) the Cistercians, the Trinitarians, and the Monks of Grace of the third order, of whom only a few went into retirement, and bound themselves by solemn monastic vows. Most of the members, indeed, were laymen, who retained their civil and domestic relations, and engaged only to lead a religious life, without quitting the world. This engagement required them every day to repeat some Ave Marias and the Paternoster, and to fast at certain specified times. The members of every third order are called tertiarians, or tertians, and are distanguished by their rich presents to the monasteries and mendicants of their order, and their zeal, in every way, to pro-mote its interests. They are at liberty to wear the full dress of their order, but generally content themselves with wearing the scapulary, or girdle, like an amulet, under their ordinary garb. This badge of connexion with a religious order, to which superstition attributes a mysterious and heavenly energy, is purchased at great expense; and with its possession is commonly connected the assurance of great indulgence. Besides these sources of income, the association of third orders affords to the first so many means of increasing its power and influence, that the care with which they are kept up, extended and favored, can easily be accounted for. The bitterest dissensions at length arose between the different religious orders, in consequence of this association of the laity with the clergy, and could be settled only by formal compacts, marking out the limits of their possessions and their influence, and by mutual agreements respecting the deserters from one order to another. To deserters from one order to another.

the original intent of monastic institutions of serving God by prayer, and the world by instruction, and example, and benevolence, the policy of the popes gradually added the design of ruling nations. This is clearly shown in the constitutions of the spiritual orders. The orders first established governed themselves in an aristocratico-republican manner. The Benedictine monasteries were long independent of one another. The Cistercians obeyed a high council, made up of the abbot of Citeaux, as the superior, the abbots of Clairvaux, La Ferté, Pontigny and Morimand and twenty other counsellors. The abbot and priors of all the Cistercian monasteries were responsible to the general chapters, held at first every year, and afterwards every third year. Inferior orders, as the Carthusians, Grand-montanists, &c., with similar constitutions, had to contend with bishops also, whose ancient claims to the jurisdiction of all the monasteries in their diocese they could not so easily throw off as the Benedictines and Cistercians, who were favored by the papal immunities. But the mendicant orders, at their very commencement, placed themselves in a much more intimate connexion with the popes. Dependent solely and immediately on Rome, by virtue of the privileges which they received, they preserved the strictness of their organization with a success which, in the government of large associations of men, could be maintained only by the unity of the ruling power, and the blind obedience of the subjects. Most of the other orders soon adopted the same constitution. Accordingly, at the head of every religious order stands a general, or governor, who is chosen every three years from the officers of the institution, resides at Rome, and is responsible only to the pope. In some orders, however, he has in his attendance a monitor, who watches his proceedings in behalf of the order, and may remind him of his duty, when his proceedings are unconstitutional. The counsellors of the general government are the provincials-officers to whom is committed the supervision and government of monasteries in the separate provinces. They form, under the presidency of the general, the chapter of the whole order, and preside, as general vicars, over the provincial chapters, in which the superiors of the separate monasteries of a province take part, as members entitled to vote (suffraganci). These officers have various names in the different orders. viz. abbots, priors, superiors, ministers. guardians, provosts or rectors; and, in the

sense of the canon law, they are prelates. They transact each of them the affairs of . heen elevated to the papal dignity. his own monastery in a chapter or assembly, with the religious in it belonging to the choir. Hence the choristers are denominated conventuals and fathers (patres), to distinguish them from the interior monks, who are called brothers (fratres), because they have not been consecrated to the office of priests, or are only lay brethren, who perform the domestic duties of the monastery. Moreover, in the mendicant orders, none but the latter are sent out to receive contributions. The fathers alone, on the other hand, are authorized . to perform the duties of the priestly office in the monastery, and in parishes under their patronage. The chapters of the individual monasteries of a province are under the provincial, as their officer in the first instance. The highest tribunal for all the members of an order is its general, who is also the president of the second - and third orders. The convents of the nuns are under a similar government, only they cannot be without a provest, who, with his chaplains, performs religious services among them. If they belong to no second order, they are like the Hospitallers, and all unprivileged monasteries, under the jurisdiction and superintendence of the bishop, or the prelate of the diocese where they reside, who is clothed with episcopal authority. Unprivileged orders and monasteries have always served less the designs of the popes, and fulfilled their origihal destination more faithfully (unless they have swerved from their rules), than the privileged and strictly exclusive orders. The latter have violated more decply the religious object of their institution, in pro-· portion as their submission to their superiors has been more strict, and in proportion as their principal aim has been to ex-· ercise a dominion over the minds of men, to acquire political influence, and to promote, with all their power, the claims of the popes. The mendicant orders have been the most faithful, successful and useful tools of the Roman chair in executing its bold designs, and have therefore been 'instly called the standing army of the pope. They are by no means left without encouragement; and monks who have distinguished themselves by zeal or taleut, in the service of his holiness, may expect the richest benefices from his favor. bishoprics, which are not dependent on noble chapters, they have buch readier access than the common secular clergy; and it is well known that generals and counsellors of religious orders have fre-

quently become cardinals, and have even most important of all the religious orders have been the Jesuits, and their fall was the harbinger of the 'overthrow or limita-tion of the rest. In 1781, Joseph II prohibited all dependence of the orders in his empire on foreign superiors, viz. the general and Rome; abolished all immunities, and placed the religious of every description under episcopal superintendence; he removed the foreigners among them; prohibited the admission of novices for an indefinite period; and, soon after, decreed the entire abolition of those orders which led a life of solitary meditation. Thus were extinguished the Trinitarians, Servites, Carthusians and Paulanites, and nearly all the female orders in the hereditary states of Austria. Soon after, all the remaining orders, except the Benedictines of the Mölk congregation, the Piarists, the Ursuline Nuns, and the Brethren and Sisters of Mercy, were limited to a certain number of members to every monastery, and forbidden to admit novices for the future. Thus they were condemned to gradual decay, so that the number of monasteries in Austria, which had diminished, in ten years, from 852 to 469, was doomed to go on diminishing continually from year to year. The present emperor, however, has permitted the orders which devote themselves in any way to the common good to admit novices. The Franciscans flourish, most of all, in Hungary, where the schools, in many places, are wholly under their care. In Bohemia, also, the Capuchins, Augustines, Premon- ' stratenses, and Knights of the Cross, maintain their monasteries by constant addi-In 1790, the national assembly of France abolished all religious orders, and assigned senuty pensions to the existing 18,000 monks and 30,000 mas; but the pensions were soon discontinued. In Germany, where the doom of secularization, in 1803, fell on nearly all the religious establishments and monasteries, the orders declined of themselves. In the time of Napoleon, this useful arrangement was extended to Italy and Poland. In 1810, the king of Prussia declared the monasteries in his states abolished, in order to increase the provision for schools; and no monasteries were to be found in Europe, except in Russia (which tolerates the usages of all religious), in Austria, Sardin-ia, Sicily, Ireland, Spain and Portugal, when Pius VII, in 1814, decreed the restoration of all religious orders. In truth, this proclamation affected only the States

of the Church, where the pope uses the religious orders to superintend public instruction and charities to the poor, for which, with his shattered finances, he is himself unable to provide. The courts of Madrid, Turin, Modenn, Lucca, and Naples, followed the example of the pope, and have begun to reinstate in their ancient possessions the religious who had been displaced by institutions of common The latest concordats of the pope with Naples, France and Bavaria contained stipulations in favor of the religious orders. In Bavaria, where the monasteries were abolished, some have been restored. The period of religious orders, however, is past, both in France and Germany; for in these countries the advancing spirit of the age renders all monastic institutions unnecessary; and such establishments, almost every where, want money and popular favor. The latest order (established by Leo XII in 1826) is the congregation of the Blessed Virgin Mary; and its regulations, besides the three regular vows, prescribe a fourth, viz. continuance in the connexion.-See Histoire des Orders monastiques et militaires, by Helyot (Paris, 1714, 8 vols, 4to.; nouvelle édition revue et corrigée, ornée de 812 figures, 1792 8. vols., 4to.); Pragmat. Geschichte der Vornehmsten Mönchsorden, with a preface by Walch (Leipsic, 1774—83, 10 vols.), by Crome, rector of Eimbeck.

ORDINANCE OF THE MARINE. (See Commercial Law.)

ORDINANCES OF BILBAO IS a code of commercial laws, which for more than three centuries was generally adopted by all the commercial tribunals of the monarchy of Spain, until it became the law of the land, and was, as such, incorporated in the compilations (recopilaciones) of This long careenof authority was terminated, however, May 30, 1829, by the promulgation of a new and far more extensive code of commercial laws, which has been put in operation in all the territories acknowledging the government of the court of Mudrid. The ancient code is therefore contined to the Spanish American republics, which have been, as yet, contented with the general laws of the mother country up to the time of their separation: in so far as they have not been modified by their independent legislatures. It may be expected, however, that the new Spanish code will be received before long by the new republics. The ordinances of Bilbao were originally compiled by the corporation of merchants of the

city of Burgos. It is not apparent, that any foreign code of laws was used on its formation, but, on the contrary, its features are so truly Spanish, so grave, circumstantial and cautious, that we may be permitted to conjecture, in the absence of any historical proof to the contrary, that its enactments are mostly founded on the experience and commercial knowledge of that distinguished body of merchants, which received the sanction of Ferdinand and Isabella, by a royal rescript of July 21, 1494. The city of Bilbao was afterwards allowed, on its own solicitation, to have the benefit of its provisions, by a decree of queen Juana, dated Seville, in the year 1511, which allowed the corporation of that town to exercise jurisdiction in commercial affairs by means of a tribunal established by itself. The ordinances are divided into twenty-nine chapters, of which the first eight, including the royal charter of queen Juana, treat exclusively of the organization of the corporation and the commercial tribunal, its internal regulation and duties: the following sixteen relate to the qualifications of merchants, their various relations as partners, commission merchants and general dealers, the laws of exchange, bonds and letters of credit, the laws of bankruptcy, the duties of brokers, supercargoes, the chartering of vessels, ship's papers, shipwrecks and salvage, average, insurance, and the allegations of captains and mariners: the last five, from the 25th to the 29th, relate chiefly to the duties of pilots, lightermen, ship-builders and carpenters, with some local regulations of great minuteness.

ORDINALIUS. For the professores ordinarii in German universities, see the article Universities.

Ordinary, in the common and canon law; one who has ordinary or immediate jurisdiction in ecclesiastical matters. In England, the bishop of the diocese is commonly the ordinary. The ordinary of assizes and sessions was formerly a deputy of the bishop, appointed to give malefactors the neck-verse (i. e. the verse, which was read by a party to entitle him to the benefit of clergy). The ordinary of Newgate is one who attends on condemned culprits, to prepare them for death. The establishment of persons employed by a government to take charge of ships of war laid up in harbors, is called the ordinary : hence a ship laid up under the care of the master attendant, is said to be in ordinary, A physician or chaplain statedly attending in actual service, is called a physician or chaplain in ordinary. (For the professores

Universities)

ORDINALI. (See Parabola.)

ORDIVALION; the consecration of a Charten number or priest for his office, his admission into the number of the clorgs. With many Protestant sects ordinition is natively a solumn act, by which the person to be ordained is publicly declared by the ordiners fit for preaching, and to be henceforward one of the clergy or immistry of their sect, the ordanicis accompanying the act by prayers and by expour dir g to the candidate for ordination the secred duties which he undertakes The English church considers or hustion as creat consecration, the power of communeting which his descended from Christ through the apostles and bishops, and the American Episcopal church therefore sent to I nalind, iter the revolution, to obtain the consecution of bish ops, through whom the power of ordina tion is descended to the I piscopil charge of the U. States (See England, Church of, close of the utic's) bor ordination in the I nglish church, subscription to the thirty-nine articles, icknowledgment of the temporal and spurmal supremay of . the king, and the delan tion that the Book of Common Prayer contains nothing con truy to Scriptine, ne requisite. The cer emony of ordunation is performed by the bishop by the imposition of hands on the person to be orduned. In the Linglish church, and in most Protestant countries, where the church is connected with the state, enduration is a requirate to preaching, but in some sects ordination is not neces sary for that purpose, although it is considered proper previous to the administration of the saci ments by the preacher The Catholic church, both Roman and Greek, has distinguished, ever since the third ceptury, eight orders (ordines), each of which is contened with peculia soleninitres. The lower or petty orders of the ancient church were the ostiaru, or doorkeepers, the sacrist in (sexton), who tolked the bell, opened the church, &c, the lectores, or readers, who read passages of the Bible to the people, the exorcists, whose office it was to drive out cvil spirits, and to assist in the culumony of hiptisin, by reading the formula of Corrism, and the acolytin (q.v.) These tour manner orders are generally contured on the ame day by the bishop. They us not onsecrations, do not confera sputual dighuy por require celibacy; but it is necesn the others. The higher orders

ordinarii in the German universities, see require celibacy, authorize the we iring of the sacred vestments and the tonsure, and stump the individual with an indelible character (character indelibilis). 'I he lowest of these is the subdeaconship, the duties of which are the care of the sicied vessels the decoration of the altri, &c, and the chanting of the spistle to the society. The deacons are one degree in thei, who serve during mass (distribute the waters), administer baptism, preach, climit the 205pel to the people, and are distinguished from the subdencons by we arm, the stola and dalmatica (q v) still higher are the priests or presbyters, who administer all the sicianients, except confirmation and ordination, and we a mass vestments when celebrating mass. These three degrees are also usually conferred by the bishop on one day The highest degree is the episcopal ordination, which authorizes the bishop to administer the surments of confirmation and ordination (Se Bish-ops) Bishops are consecrated by archbisnops, and the later do not receive my new consteration, but are installed uch bishops by receiving the pullium from the pope. The Catholic dogme of or limition is founded on John 33, 21 and 92, who Class says to the questies " Is my I ther both sent me even so s nd I you. And when he had said thus, he breathed on them, and said anto them, Receive ve the Holy Gnost" The spiritual power of ordination it considers as designed from the spostles through the bishops

ORDNINGE (Su Cannon, Intillery, Gunnery, Hou dzers, Morturs)

ORIADS (See Nymphs)
OREGON, the nume by which that portion of the territory of the U States which hes west of the Rocky mount uns, is commonly known It forms a distinct geo graphical region, but has no independent official existence. Its western understain hunts are clearly defined by the Rocky mountains and the Pacific occus, its southern by the boundary line between Spain and the U States, being on the paralk! of 42° from the mount ms to the occan. The northern boundary is unsettled, but is often lad down on the maps as formed by the parallel of 54° north, because, by the convention of 1-24, between Russia and the U. States, it was agreed that the subjects of the former should form no settlements to the south of that parallel. This region is claimed by the U States on the ground of priority of discovery, exanunation and occupation. It was dis-

1790; examined by Lewis and Clarke, by order of the government, in 1805; and, in 1811, a settlement was formed by American citizens at the mouth of the Columbia, called. Astoria, which was taken by the English in 1813. The British government denies the justice of this claim on the part of the U. States, north of 42°; and, by a convention made in 1818 (renewed in 1827) between the parties, it was agreed that all the territory west of the Rocky mountains should be open for the space of ten years to both. breadth of this region, from east to west, is from ten to fifteen degrees of longitude (400 to 650 miles); the interior is mountainous, but the soil in general is fertile, and the climate agreeable, being much milder than that of the same parallels east of the mountains. The principal river is the Columbia.

OREGON RIVER. (See Columbia River.)
ORELLANA, Francis; a Spanish officer, who is regarded as the discoverer of the great river of the Amazons (q. v.), in South America. This river is sometimes called after his name.

ORES. Metals, when found in a state of combination with other substances, have the name of ores. They are in general deposited in veins of various thickness, and at various depths in the earth. The mode of obtaining them is to penctrate from the surface of the earth to the vein, and then to follow it in whatever direction it may lie. The hollow places thus formed are called mines, and the men cinployed in them are denominated miners. When the veins are at a great depth, or extend to any considerable distance beneath the surface of the earth, it is necessary, at intervals, to make openings, or shufts, to the surface, for the admission and circulation of air; and also to draw off the water, which collects at the bottom, by means of drains, pumps, or steamengines, as the situation or circumstances require. After the metallic ores are drawn from the mine, they, in general, go through several processes before they'are in a state fit for use. Some of these are first washed , in running water, to clean them from loose, They are then piled toearthy particles. gether with combustible substances, and burnt, or roasted, for the purpose of ridding them of the sulphur or arsenic with which they may happen to be combined, and which rises from them in a state of fume or smoke. Thus having been freed from impurities, they undergo the operation of melting, in furnaces constructed according to the nature of the respective metals, or

the uses to which they are subsequently applied. (See Mine; also Iron, yol. vii, p., 70, where the treatment of iron ores is particularly described.)

ORESTES, son of Agamemnon and of Clytennestra, the hero of several Greek tragedies, in which he is represented as the deliverer of his sister and the avenger" of his father, by becoming the murderer of his mother. Of the pieces of which his history was the subject, there remain the Coephori and the Eumenides of Eschylus, the Electra of Sophocles, and the Orestes and Inhigenia in Tauris of Eurip-Orestes, saved by his tutor, with the assistance of Electra, from the fate of his father, was brought up in the house of his uncle Strophius, prince of Phocis, and formed with his son Pylades that intimate friendship which has become proverbial. Called upon by the Delphian god to avenge. his father, he hastens back to Mycence. To conceal himself, he has recourse to artifice. His tutor and Pylades appear with an urn, which they pretend contains the ashes of Orestes. Clytennestra hears the news of her son's death with a joy which she can hardly conceal; but she soon falls under his dagger. 'Ægisthus undergoes a similar fate. But, according to the notions of the Greeks, the murderer of his mother became a prey to the Eumenides. These terrible goddesses unrelentingly pursue the unhappy prince, and at last drive him to madness. He flies to Delphi, still pursued by the avenging deities; but an oracle of the god informs him that his torments will cease when he shall have carried back the statue of Diana from Tauris to Argos. Upon this information Orestes sails with Pylades to Tauria. His sister Iphigenia (q. v.), an unknown stranger, was here living as a priestess of Diana. An old law commanded that every stranger should be sacrificed to the goddess. Iphigenia was about to offer up her brother; but a recognition takes place, they seize the image of Diana, and, together with Pylades, come to Argos. The infernal derties were now appeased. Married to Hermione, daughter of Menelaus, Orestes ruled over his paternal kingdom of Mycenic, and over Argos, upon the death of its king, who left no heirs. An oracle induced him to travel into Arcadia, where he lived in the city of Orestia, and died at a very advanced age, from the bite of a snake. 'His bones were afterwards' carried to Sparta.

Orford, Earl of. (See the two articles Walpole.)
Orgal, of Argal. (See Argal.)

ural bodies, signifies a part, or, if we may so say, a group of parts of an organized body, that is, such a body as is endowed with an inherent life, and power of activity, and reproduction. The precise idea of organ depends upon the idea of life, the limits of which cannot be accurately defined. The point at which life ceases is not agreed upon. All allow that plants live. Some philosophers even attribute life to crystals, since they follow inherent laws; but generally speaking, the expression " organic world" comprises only the vegetable and animal world. Man stands on the highest step of organic life among all the beings with which we are acquainted: he moves with liberty and consciousness; his organization is the most complicate, delicate and perfect. The various gradations of organized being, from man, through animals, plants, and down to crystals, furnish a most curious and interesting subject of study. The word organ, as applied to a group of parts, denotes that they have a particular office, and, in some considerable degree, an independent action, as when we speak of organs of taste, hearing, digestion, &c.

ORGAN (from the Greek doyavov); a musical instrument, which contains, within a case, a number of pipes, harmonically arranged, into which wind is driven by bellows (hence also the name wind-organ, δργανος πνευματίκου), and which yield tones when the player touches the keys connected with them. The chief parts of an organ are the pipes, which are of metal (tin and lead) or wood, whose length and diameter . determine the depth or height of the tone (they are sometimes four, eight, sixteen feet long); the registers or stops, by which the entrance of wind into a pipe is regulated; the manual or key-board, consisting of one or several rows of keys; the pedal, the beliques, the wind-trunk, windchest, sound-boards, &c. The greatest compass of the manual is

and that of the pedal

ORGAN. This word, as applied to nat- Most organs, however, only extend in the

manual to \square . The advantage which the organ, like every other instrument with a key-board, has, viz. that melody and harmony can be produced at the same time, united with the quantity and variety of its voices, makes it the most complete of musicul instruments, and gives it a fulness and magnificence of harmony, which is sufficient to compensate for the want of those fine gradations of strength and delicacy of tone which the violinist, for instance, can produce, and which the Frenchman Grenic tried, in 1811, to give to the organ, by his Orgue expressive. Besides, the organ has the advantage, that each tone may be continued in equal strength for any length of time, so that it is peculiarly proper for the grave, solemn, legalo style, as in church music, and for the most complicated harmonies; but for this very reason it requires a player who is familiar with the character and conpass of harmony, and possesses the skill . to arrange with rapidity his musical ideas. and to choose the best means for their exccution. A good player on the piano, therefore, is not necessarily equally skilful on the organ, and the very mode of fingering differs much, on account of the vastly different character of the instruments. An organ, when complete, is of three-fold construction, and furnished with three sets of keys; one for what is called the great organ, and which is the middle set; a secand (or lower set) for the choir organ; and a third (or upper set) for the swell. Inthe great organ, the principal stops are the two diapasons, the principal, the twelfth, the fifteenth, the sesquialtera, the mixture, or furniture, the trumpet, the clarion, and the cornet. The choir organ usually contains the slopt diapason, the dulciana, the principal, the flute, the twelfth, the bassoon, and the vox humana. The swell comprises the two diapasons, the principal, the hautboy,

trumpet and cornet. Besides the complete organ, there are other organs of less size and more limited power, adapted to church, chapel and chamber use. Some persons, particularly Jews, suppose, but without foundation, that the organ was used even in the temple of Solomon.

Some derive its origin from the bagpipe; others, with more probability, from an instrument of the Greeks, hough a very imperfect one,—the water-organ,—as it is known that the first organs used in Italy came thither from the Greek empire. It

17, 2, 2, 3, 5, 5, 5, 5,

is said that pope Vitellianus (died 671) caused organs to be set up in some Roman churches in the seventh century. (See Cecilia.) Organs were at first portable. The organs now in use are considered an invention of the Germans; but respecting the time of this invention opinions differ. It is said by some, that, as early as 1298, the cathedral of Strasburg. lost an organ by fire, which seems not to have been a "water-organ." Others assert. that the first organ of the kind now in use was built in the year 1312, by a German at Venice. It is certain that the use of organs was not common before the fourteenth century. At the beginning, the inreument was very imperfect ; it was useonly in fixing the pitch of the voice. shts, which was effected by touching, or hopper pressing down, a key two inches of hist, and pretty thick, when a hymn was alber. The first organs seldom had more r-ser two keys, which were so large and ..licult to be moved, that probably this circumstance gave rise to the expression "to thump the organ." They were portable, and had, perhaps, no register. keys in time became smaller, and between the diatonic tones the semitones were inserted. The left hand, also, was occupied by the addition of a new key-board. 1444, II. Drossdorf of Mayence built a great organ, with a pedal. According to others, Bernhard, a German, organist to the doge of Venice, built the first organ with a pedal, between the years 1470 and 1480. The largest organ known till the end of the fifteenth century, was that in the church of St. Blasius, at Brunswick, built by If. Kranz, in 1499. Improvements of the organ succeeded quickly in the sixteenth century; the division of all the pipes into different stops was now invented, and the tune of the instrument was adapted to the tone of the choir. The bellows were particularly improved, as, till then, 20 to 24 pair had often existed in one organ, requiring from ten to , twelve men to trend them. But the present degree of perfection could not be obtained until Christian Förner had invented. in the seventeenth century, the wind-chest, by which an equal pressure of wind can be obtained in all the bellows. The largest organ is that in St. Peter's church in Rome: it has a hundred stops: The Rome: it mas a manufacture in 1703) has great organ in Görlitz (built in 1703) has great organ and 3970 sounding pipes. The .57 stops and 3270 sounding pipes. The organ in the minster of Strasburg has 2136 pipes; that at Ulm, in Suabia, over 3000 pipes. In Rothenburg, on the Tauber, and in Halberstadt, there are organs VOL. IX. 36

on which three players may perform at the same time. The organ in the church of Mary Magdalen, at Breslau, has 3342 pipes. The largest metallic pipe weighs 34 cwts., is 124 ells long, and 14 inches in diameter. Vogler has attracted much notice by his system for simplifying the construction of organs. An organ of pasteboard, at Saintes, built by father Julian, produces agreeable tones. In Paris, some time ago, an organ was built of playing cards. We have seen an instrument with a key-board like that of an organ, the tones, of which, however, were produced by the friction of wood; and the newspapers lately announced the invention of an instrument which produces agreeable sounds by the striking together of flints, made by M. Backstein of Cassel, who calls this instrument saxamelodicon .- The hund or barrel organs consist of a movable, turning cylinder, called a barrel, on which, by means of wires, pins and staples, are set the tunes it is intended to perform. These pins and staples, by the revolution of the barrel, act upon the keys within, and give admission to the wind from the bellows to the pipes. The hand-organ is , generally portable, and so contrived that the same action of the hand which turns the barrel, gives motion to the bellows. (For water-organ, see Hydraulicon.)

ORGANIC LAWS is the name given in France, and also in Germany, to such lawsas directly affect the fundamental political organization of a country. Thus the law which changed the provisions in the constitution of the U. States respecting the election of the president and vice-president (see Election), would be called by the French an organic law; and thus the senatus-consulta, which declared Bouaparte consul for life, and afterwards emperor, were called organic senatus-consulta. However, the French apply this term not only to those laws, which, at least in many cases, would be called by us reforms of the constitution, but also to every law which, as the Encyclopédie Moderne expresses it, is the application of the theory contained in the fundamental law or charter. The words are these: La loi fondamentale quel que soit son nom, n'est qu'une proclamation de principes. Les lois organiques sont l'application de cette théorie. Le principe est dans la charte, la garantie dans la loi or-ganique (The fundamental law, however called, is but a proclamation of principles. Organic laws are the application of this theory. The principle is in the charter. the application in the organic law).

ORGANIC REMAINS; those animal and.

vegetable substances which are contain- between the extinct and living shells ined in rocky strata, or found loose in the creases in proportion as we descend earth. The study of them has sometimes been denominated oryctology. Xenophanes, more than 400 years before Christ, was led to the belief of the eternity of the universe, by discovering the remains of different marine animals imbedded in rocks and under the surface of the earth. Herodotus ascertained the existence of fossil shells in the mountains of Egypt, and was thereby induced to believe that the sea must have once covered those In the pyramids of Egypt, mentioned by this author, and which were built at so early a period that no satisfactory accounts could be derived from tradition concerning them, the stones were found to contain the remains of marine animals, and particularly of such as exist no longer in a recent state, and differ essentially from all known animals. These were supposed by Strabo, who saw the fragments of these stones lying around the pyramids, to be the petrified remains of the lentils which had been used for food by the workmen. In the works of Pliny many fossil bodies are mentioned, particularly the bucardia, resembling an ox's heart, but which was, doubtless, a cast formed in a bivalve shell; glossopetra, bearing the form of a tongue, and supposed to fall from the moon when in its wane; banunites, resembling the spawn of a fish; horns of ammon, resembling in form the ram's horn; lepidotes, like the scales of fishes; meionites, bearing a resemblance to the seeds of the poppy; brontie, looking like the head of a tortoise; spongites, which resembled the sponges; and phycites, sea weeds and rushes. Modern investigations have brought these remains to light, as existing in the greatest variety of forms, in immense quantity, and with the widest possible distribution. lowest and most level parts of the earth, when penetrated to a very great depth, exhibit strata containing innumerable marine productions. Similar formations compose hills, and even mountains, in which the shells are so numerous as to constitute the main body of the rock; and they are often in such a perfect state of preservation, that even the smallest of them retain their most delicate processes. Every part of the globe, of any considerable extent, exhibits the same phenomenon; and, what is at length perfectly established respecting these productions, they differ in specific, and often in generic resemblances, from the shells of the present day, and the differences tertiary formations:-

through the successive series of deposits that overspread the surface of the earth. To illustrate the variety which exists among these fossils, and, at the same time, to give an idea of the manner in which they disagree with recent shells, we will give the results of the examination of British fossil shells. The number of genera at present known to English naturalists is 135, which comprise 1265 species. Of these

58	genera	are simple	univalves,	Spe	cies
	6		which com	rise	401
62	66	simple	e bivalves, 🧟		583
3	66		licated bivalv		
12	"		ocular unival		

To ascertain the relative proportion of t different classes contained in strata different periods, we make three princ . . . divisions in the formations containing ganic remains: the first is the most ancient series; the second or middle division contains the remainder of the secondary strata, and the third consists of the tertiary The first, which is the lowest or most ancient division, may be subdivided into two series of formation:-

1.	Carboniferous	order	of	Mr.	Cony-
		beare,		. •	Species.

Simple univalves,			•			27
Simple bivalves,						
Complicated bivalves,						
Multilocular univalves					•	33
						140

2. From the carboniferous to the lias in-

clusiv	ve						•	
,		•				S	pe	cies.
Simple univalves,								9
Simple bivalves,								
Complicated bivalves								5
Multilocular univalves								50
							. '	97

The second or middle division, from the lias upwards, includes the entire offitic series, and the strata up to the chalk, inclusive:--

						S	ecies.
Simple univalves,						٠	106
Simple bivalves,							375
Complicated bivalve	e s.						0
· Multilocular univals	768					٠.	139
				_		. 1	2000

The third, or most recent division, comprises all the beds above the chalk, or the

						e	rcie
Simple univalves, Simple bivalves,		•	•	•	•	14	
Complicated bivalves, . Multilocular univalves,							
•			•				40

The shells of the most ancient formations exceed, in complexity of structure, those in the subsequent strata, and in our present seas. They are more frequently endowed with that complicated structure which enabled their inhabitants to rise and sink with them in the water. Of this class are the numerous race of manychambered univalves—the nautilites, the ammonites, and orthoceratites; and of the class of complicated bivalves are the spirifers, and the genera pentamerus and productus. The table given above furnishes the means of comparing the numbers which existed in each class, during separate periods, or geological periods.

First Division .- Ancient strata, including

	-				8	preies	١.
Simple univalves, Simple bivalves,	•	•	•				
Complicated bivalves,	:	:	:	•		. 67 . 61 (104
Complicated bivalves, Multilocular univalves,		•	•		. :	83) • 194
						937	

Second and third Divisions .- Remaining strata, above the lias up to diluvi-

				Speries.	
Simple univalves,				365	
Simple bivalves				516	
Complicated bivalves.	:			0.5	1 17
Complicated bivalves, . Multilocular univalves,				147 \$	147
			_	1028	

It will thus be perceived, that the number of complex species in the first division is nearly equal to those in the immense series of succeeding strata, 134 being peculiar to the lowest, and 147 to the remainder. But the individuals are infinitely more nuncrous in the older strata than in the later, and give a more decided character to those formations than appears from a comparison of general or species; and the class of complicated bivulves is wholly limited to this older division. The difference is still more striking when we compare the first with the third division: the imple univalves in the former being to those in the latter in the proportion of one to seven; but the complicated species ratio nearly of seventeen to one. On

comparing the proportions which the classes of shells under each division bear to each other, differences equally remarkable are observable. Thus the univalves in the first division are to the complex ' species as one to four; in the second as one to one and one third only; and, in the third, as thirty-two to one; so that, as a; general rule, it may be stated, that the ancient formations are characterized thy complicated shells, the middle series by bivalves, and the upper by simple bi-valves. The organic remains of land animals imbedded in strata, and dispersed). through diluvial gravel, do not exclusively belong to species at present unknown; though this is the case with such as are not found very near the surface; many of these are of species still inhabiting the countries where they are thus found; while of the rest it may be said that they either belong to species at present inhabiting remote countries, or to species and genera now wholly unknown. In various parts of this country have been found the remains of the elephant and mastodon; in Ircland have been found the remains of the deer, of a size far exceeding any now known; and in Scotland. have been found the remains of the clk, as well as those of an animal of the ox kind, but larger than even the urus. In France, Germany and Italy, and, indeed, in most parts of Europe, remains of large ' animals have been found. According to Pallas, from the Tanais to the continental angle nearest to America, there is hardly a river in this immense space, especially in the plains, upon the shores or in the bed of which have not been found the bones of elephants, and of other animals not of that climate. From the mountains by which Asia is bounded to the frozen slibres of the ocean, all Siberia is filled with prodigious bones. The best fossil ivory is found in countries nearest to the Arctic circle, as well as in the Eastern countries, which are much colder than Europe under the same latitude. The number of bones which have been discovered of the rhinoceros is very considerable, not only in Siberia, but in Germany, and in. other parts of Europe. An entire animal of this species, still retaining its skin, fat ... and muscles, has been dug near the river Willioui, in the castern part of Siberia, from under a hill which is covered with ice the greatest part of the year; and, more re-cently, an elephant has been found imbedded in ice near the mouth of the Lena. in the same divisions are in the reverse in the same country. This last was covered by hair of two kinds; one short, fine,

and crisped, resembling wool, and the other long, like bristles. The flesh was still in such high preservation that it was eaten by dogs. At present, there are but two existing species of elephants; one (the Asiatic) being distinguished by its grinders being divided into transverse and nearly parallel plates, and the other (the African) having these plates disposed in lozenge-like forms. The elephantine remains found in Siberia have been supposed to belong to no existing species; for, though the teeth are formed of plates disposed parallel to each other, as in the Asiatic, these plates are thinner and more numerous. Several quadrupeds of the lizard tribe, very much like the large monitors now existing in the torrid zone, are found in the bituminous slates of Thuringia, in the midst of innumerable fishes of genera now The Alpine limestone of Germany and Lorraine has produced skeletons of a large sea tortoise, whose shells might be from six to eight feet in length. The ichthyosaurus (discovered by sir E. Horne), of the reptile family, has a head like the lizard, armed with conical and pointed teeth, enormous eyes, a spine composed of flattened vertebrae, slender ribs, and four limbs, of which the femora and humeri are short and thick. extraordinary animal, of which four species have been discovered, and of which the largest is twenty feet long, is found imbedded in the oblitic and lias limestones. The plesiosaurus, discovered by Mr. Conybeare, and which belongs to the same formation, is still more monstrous in • size.. ' It has similar limbs, but more clongated and flexible. Its shoulder and pelvis are stronger, its vertebræ more assimilated to those of lizards, but distinguished from all oviparous and viviparous quadru-, peds by a slender neck, as long as its body, rising from the trunk like the body of a serpent, and terminated by a very small Of this hydra-like monster tive species are already known. They were discovered in England, and have since been found in France and Germany. Still another very remarkable genus of reptiles, found in the collite and the higher sands, is called the megalosaurus; for, with the shape of lizards, and particularly of the monitors, of which it has the cutting and indented teeth, it exceeded seventy feet in length. It was discovered in England by Mr. Buckland, and has since been found in France and Germany. But' the most remarkable animal found in the Maty limestones is the flying lizard—a reptile with a very short tail, a long body, a

muzzle greatly extended, and armed with sharp teeth, supported on high legs, the anterior extremity having one excessively long claw, which is imagined to have given support to a membrane for sustaining it in the air, together with four other toes of ordinary size, terminated by hooked claws. Three species of this extraordinary genus have been found, all of which are very small. The mosaurus, found in the chalk mountain of St. Peter, near Maestricht, is upwards of twenty-five feet in length. Its jaws are armed with very strong teeth, and its palate is furnished with teeth also. It has more than 130 vertebre in its spine; and its tail is high and broad, and must have formed a large vertical oar. Scarcely less remarkable are the organic remains found by the celebrated Cuvier in the gypsum quarries They belong to several about · Paris. families, some of which resemble the tapirs, others the rhinoceros, others the otter, though nearly as large as the wild Besides the pachydermata, the same quarries afford carnivora, many sorts of birds, crocodiles and tortoises. Two other remarkable animals, which formed a part of a creation of living beings anterior to that at present existing upon our earth, are the megatherium of Paraguay, and the megalonyx of Virginia. They are supposed by Cuvier to belong to the family of edentata, and may be placed between the sloths and the ant-eaters, but nearer to the former than to the latter.—As respects vegetable remains in a fossil state, subterranean collections of bituminized wood, and other vegetable matter, are found at various depths in different parts of the world. Cannell coal, as well as anthracite, frequently exhibits traces of ligneous texture in its substance, which could have been derived only from wood. The argillaceous iron-stone and slates that accompany coal contain, with remains of many other unknown vegetables, parts of various cryptogamous plants, the recent analogies of which are found only in tropical regions. It is impossible to give an idea, without figures, of the beauty and variety of the impressions thus found in the argillaceous and bituminous slate. formations of the coal measures.—Concerning the mineral matters which enter into the composition of fossils that are denominated petrifactions,-and all organic. remains are thus termed whose original particles have given place to matter of another. sort-they are chiefly of three kinds, viz. calcareous, silicious and argillaceous. Iron and copper pyrites are found perform-

ing the same part, though with less frequency than the substance first mentioned. Fluor rarely occurs as the replacing material of fossils. The precise manner in which the substitution takes place it is difficult in many cases to conceive of: in general, we are sure that the mineral matter is slowly deposited by intromission into the original interstices and cavities of the organic body, or is introduced to fill the spaces which have been produced by the partial removal of the original organic substance. In conclusion, we have only to remark concerning these monuments of former worlds, that, in the several formations composing the outer part of the earth down to the primitive rocks, the fossil remains which they contain vary in each formation, and at the same time diffor from those beings which now exist. The discovery of animals peculiar to certain formations, and the general agreement with each other of the fossils of the same formations, have led to the belief that these several formations were the consequences of successive changes effected on the earth's surface; and that the contained fossils are the preserved remains of the several creations which had been successively formed to accord with the state of the planet under its several changes. In the lower, and consequently earlier formed, strata, are found the bituminized remains of unknown vegetables; and in the masses of mountain limestone are immense accumulations of crinoideal and terebratular remains, of the numerous species of which tribes searcely a living individual can now be found. Here also exist the multilocular univalves in such abundance, while the genus nautilus is the only one of this family whose existence through a few species is continued to the present day. The fossils of the next superior formation-the lias-afford proofs, also, of their having been the production of a distinct creation. But the most decided proof of these fossils being the remains of another world, and of a distinct creation, is their containing relies of a tribe of enormous marine animals, such as quadrupeds possessing the blended structure of fish and lizard, no traces of which have been observed in the preceding strata. The fossil remains, through the succeeding higher formations of collite, green sand, chalk and clay, show new genera, both of saurian and testaceous animals; and when we follow, on the surface of the vast mass of upper clay, the traces of diluvial action, and the desolation which accompanied the last grand

catastrophe which the planet appears to have sustained, we there find the remains of another creation—the terrestrial quadrupeds. These changes in the state of the planet, and this partial destruction, appear to have been succeeded by the creation of man, and of such quadrupeds and other animals as were fit inhabitants of the earth after its last change; from whence it appears that beings have proceeded, gradually increasing in superiority, from testaceous animals to reptiles, marine and fresh water amphibia, quadrupeds, and, lastly, to man.-For further information, see Parkinson's Organic Remains of a Former World (London, 1804-11, 3 vols., 4to.); and his Introduction to the Study of Organic Fossil Remains (1822); Buckland's Reliquiæ Diluvianæ (London, 1824-28); und Cuvier's great work Ossemens Fossiles (3d ed., 1826, 5 vols.); Schlottheim's Beitrage zur Flora der Unterwelt; and Sternberg's Darstellung der Flora der Vorwelt; Link's Urwelt and das Alterthum (Berlin, 1821); Schubert's Urwelt und die Fixsterne (Dresden, 1822); and Krüger's Geschichte der Urwelt (Quedlinburg, 1822). Godinan's Natural History describes the fossil remains of North America. See, also, our articles Geology, Mastodon, Mammoth, Megalotherium, Megalosaurus, &c.

Organology; a term used to denote a branch of physiology which treats, in particular, of the different organs of animals; especially of the human species. It is, as may well be imagined, one of the most interesting branches of natural science.

Orgins (depen); the mystic rites and wild revels celebrated in honor of Bacchus; also the festivals and mysteries of other deities. (See Bacchus, and Mysteries.) The term has hence been applied to any scene of riotous mirth and excessive revelry.

ORIENTAL EMPIRE. (See Byzantine Empire.)

ORIENTAL LITERATURE.

This vast

field of learning, which comprises the languages and literature of nations, some of which are totally distinct from others, has been cultivated, in recent times, with great zeal. Not only is the number of Oriental languages, now studied, much greater than formerly, but they are much more accurately known. Formerly, even the most celebrated Orientalists, in general, possessed but a superficial knowledge; and the difference between the learning required from a classical philologist, and that expected from an Orientalist, in his branch, was very great. Many Oriental-

ists were unable to conjugate or decline

the Arabic correctly. The grammatical

knowledge of some of these languages has become much more profound in our time, though there have been, yet,, comparatively few Oriental works printed. This great change must be traced, in part, to the writings of Silvestre de Sacy, who may be considered as having more knowl-His Grammaire Arabe (Paris, 1810) gave an entirely new turn to the study of this language, and indirectly influenced the study of Persian and Hebrew. This progress is, in part, also attributable to the zeal and activity of the English in India, which have been exerted not only on the Indian languages, but also in the publication of Persian and Arabian works. From English presses in the East Indies, at Scrampore and Calcutta, and from the Turkish in Scutari and Constantinople, have issued the most important works of Oriental literature; for instance, the original dictionaries of the Arabs, Persians and Turks. Not only has the study of the languages been much extended in recent times, but much has been done for its application to scientifical, historical, geographical, mythological and philosophical investigations. It must be confessed, indeed, that instances are not wanting, in which inquirers have been seduced, by these discoveries, to erroneous theories, particularly through unfounded etymologies. Five Asiatic societies have been established, by Europeans, for the promo-"tion of the study of Oriental literature, three of which are m India (in Calcutta, Bombay and Madras), and are composed of scholars and military men. Each of them publishes its Transactions. of Calcutta has published 15 volumes, un-der the name of Asiatic Researches. That of Bombay, of a much later date, has published at least 3 yolumes. The two other societies are that of Paris (founded in 1822, under the presidency of Silvestre de Sacy), and that of London (royal Asiatic society, founded in 1820, under the presidency of Colebrooke). The Paris society publishes the Journal Asiatique. The London society has published 3 volumes of extremely valuable Transactions. The Asiatic Journal is also published in London, which is useful for Asiatic intelligence, but in which, however, the literary articles are not generally of a very high character. The Annals of Oriental Literature, begun some years ago in London, ceased with the 3d volume. Similar periodicals appear in Calcutta and Malacca. Germany has, in this department, the Fundgruben des Orients (Mines of the East), published

at Vienna, chiefly supported by the efforts of Von Hammer, and Schlegel's Indische Bibliothek, published at Bonn. There are institutions for instruction in the Oriental languages at Fort William in the East Indies, at Hayleybury in England (for officers of the East India company), at edge of Arabic than any other European Paris, Vienna and Petersburg. The libraries of Paris, London, Oxford, the Escurial, Rome, Gotha, Vienna, Berlin, Copenhagen, Upsal, Petersburg and Constantinople, contain the richest materials in Oriental literature. Gotha contains more Oriental manuscripts than any other Ger-They were collected by Seetzen, in Aleppo, Damascus, Jerusalem and Cairo. Petersburg possesses the richest collection of Oriental (i.e. Mohammedan) coins. the inspector of which, Mr. Frahn, is the most learned Oriental numismatist. The collection of manuscripts, in that city, has been increased by several taken during the last invasion of Turkey by the Russians, and the study of the Oriental languages will be greatly benefited by the newly-established Oriental institution at Petersburg, intended for the instruction of Russian professors, interpreters and diplomatic agents. The members. and diplomatic agents. will publish an Asiatic Journal. The languages to be taught are Arabian, Persian, Turkish, Tartar, Chinese, Mantchoo, Sanscrit, Tibetan, Mongolian, Calmuck, Georgian and Armenian. After a study of five years, the students will be sent to the respective countries to perfect themselves. Some of the most important, works recently published in the department of Oriental literature, are as follows: In Sanscrit, the ancient learned language of India, great progress has been made by Wilson's Sanscrit and English Dictionary (Calcuftta, 1819), before which there was no dictionary of that language. The best grammar is, as yet, that of Wilkins (London, 1808). A more recent one, by Yates (Calcutta, 1820), has given some valuable additions on prosody and grammatical terminology, but is, in other respects, not-thorough. Frank, a German, published a Grammatika Sunskrita (Warzburg, 1823); Bopp an Insflintliches Lehrgebäude der Sanskritsprache (Berlin, 1825, 4to.); Frank also published a Chrestomathie (Munich, 1820—21). Among the Indian writings published, are Nala, a romantic episode, from the Mahabharata, Sanscrit and Latin, by Bopp (London, 1819); Ardschuna's Visit to the Heaven of Indra; also an episode of the Mahabharata, Sanscrit and German, by Bopp (Berlin, 1824, 4to.); Bhagaradgua, a philosophical episode of

the Mahabharata, Sanscrit and Latin, by Pelahvi languages, which Anquetil de-Schlegel (Bonn, 1823). The whole poem Rumajana, with a Latin translation, in 8 vols., without the notes, is publishing by A. W. von Schlegel. Among the works most recently published in India is the the two coic poems Kiratardshunija (Calcutta, 1814) and Sisubalahadha (Calcutta, 1815); Dajakrama Sangraha, a disserta-tion on the Indian law of inheritance (Calcutta, 1818). Haughton, professor at Hayleybury, has begun a new edition of the Code of Menu. (q. v.) Investigations in the department of comparative philology have been presented, by Bopp, in his Conjugationsystem der Sanskritsprache (Frankfort, 1816), and in the Annals of Oriental Literature. Schlegel has also promised an Elymologicum Novum relating to the same subject. Besides the Sanscrit, the living languages of India, more or less connected with it, have been cultivated with great zeal by the English: for most of them we now possess excellent manuals; for instance, for the Bengalese, the Grammar and Reader of Haughton (London, 1821); the Dictionary by Carcy (Serampore, 1815); for the Hindoostance, the Grammar by Shakespear (London, 1818); and the Dictionary by the same (London, 1820); for the Mahratta, the Grammar and Dictionary by Carey (Scrainpore, \$508 and 1810). Authors in these modern Indian languages have also been printed. (See Indian Languages and Literature.) In the department of Chinese literature, Morrison's (q. v.) Grammar (Scrampore, 1815); his Chinese and English Dictionary (Macuo, 1815—1820); Abel Rémusat's Elèmens de la Grammaire Chinoise (Paris, 1822), are works of high reputation. Asiatic society at Paris has set on foot a revision of Rodriguez's Grammar of the Japaneso. For the Tartar languages, we have Remusat's Recherches sur les Langues Tartores (Paris, 1820). Klaproth published, at Paris, a Dictionary of the Mantchoo Tartar. Several Tartar works have been published at Kazan, chiefly destined for instruction in the Mohammedan religion; the Russian imperial chancellor, count Romanzoff, has ordered the printing of the Turtar historian Abulgasi. Works in Turkish, which is a Tartar language, are Paris, but it is superficial. As regards the ancient Persian, that is, the Zend and

Perron knew but imperfectly, we may expect more profound researches by means of the manuscripts which Rask (q. v.) has carried to Copenhagen. Among them are also writings in the Pali language, the poem Meghadula (Messenger of the ancient sacred idiom of Farther India. Clouds), by Calidasa, with an English Desatir (Bombay, 1818) claims, likewise, translation by Wilson (Calcutta, 1813); to belong to the ancient Persian literature, but is probably of more modern origin. For the modern Persian, the original dictionaries, Shems cllogat (Culcutta, 1806) and Burkdni Kati (Calcutta, 1808) are important. The most complete grainmar is that by Lumsden (Calcutta, 1810, 2 vols., folio). Of the rich literature of this beautiful idiom, many works have been published in India. The most important among the latest, are the edition of the Shanameh of Ferdusi (Calcutta, 1811) and the Iskendernameh of Nisami (Calcutta, 1812). Sacy has published a religious poem, Pend-namek, ou le Livre des Conseils (Paris, 1819). Kosegarten has published some extracts from the Persian tales of . Nechschebi, in the Tutinamch (by Iken and Kosegarten, Stuttgard, 1822). Görres has given an abstract of the great historical poem Shanameh, under the title Heldenbuch von Iran (Berlin, 1820). We have a view of the most important poets of Persia in Hammer's Geschichte der schönen Redeklinste Persiens (Viehna, 1818). (See Persian Language and Literature.) The study of Arabic—a noble, manly, rich and cultivated idiom-has been much facilitated by the publication of the best original Arabic dictionary, Kannus (Calcutta, 1817). Sacy has published a new edition of his Grammar and Chrestomathic (Paris, 1826, 2 vols.). Kosegarten's Chrestomathia Arabica (Leipsic, 1824) contains unpublished historical and poetical selec- ' tions, with a dictionary and grammatical explanations. Freitag, in Bonn, is occupied with a new Arabic-Latin dictionary. A work of classic value for the study of Arabic, is Sacy's Hariri (Paris, 1821), accompanied with Arabic commenturies. Among the Arabic poems recently published, Kosegarten has given to the public the Amrui ben Kelthum Moallaka (Jena, 1819); Freiting, the Carmen Caab ben sohair (Bonn, 1822); Hengstenberg, the Amriul Kaisi Modlaka (Bonn, 1823); Horst, the Carmen Motanabbii (Bonn, 1823). The whole collection of Motanabbi (q. v.) has continually issued from the presses in been translated, by Hammer, into German Scutari and Constantinople. Jaubert has (Victura, 1824). Among the historical published a new Turkish Grammar, at works published are Rusmussen's Addita-Among the historical menta ad Historiam Arabum (Copenhagen. 1821); Freitag's Selecta ex Historia Hu-

lebi (Paris, 1819); Frähn's Ibn Foszlan (Petersburg, 1823); Uylenbrock, De Ibn . is publishing a grammar and vocabulary Kuukalo (Loyden, 1822); Hamaker's Speci- of the Georgian. Important fragments men Catalogi (Leyden, 1820); Kosegarten. De Mohammede ebn Batuta (Jena, Calcutta (1818). Hammer and Hagen have given new German translations. The Arabian romance Antar has been translated into English (London, 1820). The most important numismatic works, of late, have been published by Fråhn at Petersburg, Castiglioni at Milan, and Hallenberg at Upsal. (See Arabian Language and Literature.) For Hebrew, so nearly related to Arabic, Gesenius has done much by his Dictionary; also for grammar, for instance, by his Lehrgebäude der Hebräischen Sprache (Leipsie, 1817). An excellent grammar has been written by professor Moses Stuart, of Andover (Mass.). Among the editions of Hebrew authors is to be mentioned Gesenius's Isaiah (Leipsic, 1821). In the rabbinical literature, the most recent works are, Winer's Chrestomathia (Leipsic, 1823), and Kosegarten's Liber Corona: Legis (Jena, 1824), which contains fragments of an author of the sect of the Caraites. (See Rabbinical Literature.) Our knowledge of the Phoenician has been extended by Hamaker's Monumenta Punica (Leyden, 1822); and the history of the Phœnician, and of all other Semitic alphabets, has been illustrated by Kopp's Bilder und Schriften der Vorzeit (Manheim, 1819 to 1821). Gesenius's Samaritanorum Theologia (Halle, 1822) contains fragments of Samaritan, hymps. A new Syrian Grammar has been published by Hoffmann (Halle, 1824). A new Syriac dictionary is à great desideratum; Quatremère, at Paris, has collected many materials for this pur-We have an important work, repose. markable also as a religious monument, in the Sabian, a dialect of the Syrian, in Norberg's Coder Nasaræus (Lund, 1815; with glossaries, 1816 and 1817). We have an apocryphal book of the Old Testament, in the Ethiopic, Ascensio Jesaia Vatis, Ethiopian and Latin, by Laurence (Oxford, 1819), and also the Primus Esræ Liber, Ethiopic and Latin, by the same (Oxford, 1820). Aucher has published a new Armenian Grammar and Dictionary (Ven-The Armenian ice, 1816 and 1817). Translation of the Chronicle of Eusebins and Mémoires historiques et géographiques sur l'Arménie, have also appeared at Paris F1819). In the Armenian convent 'at Venice, Armenian works are constantly

publishing. The Asiatic society, at Paris. of the Coptic literature have been pubten, De Mohammede ebn Batuta (Jena, lished in Zoëga's Catalogus Codicum Cop-1818): of the Arabian text of the Arabian ticorum (Rome, 1810). Doctor Young Nights, two volumes have appeared in (q. v.) and Champollion (q. v.) have occupied themselves in deciphering uncient Egyptian writings. (See the Account of the former, and the Précis du Système Hicroglyphique of the latter; see, also, our , article Hieroglyphics.)

ORIFTAMME (auriflumme); the old royal standard of France, originally the church banner of the abbey of St. Denis, which was presented by the abbot to the lord protector of the convent (formerly the counts of Vexin and Pontoise), whenever it was necessary to take up arms for the preservation of its rights and possessions. It was a piece of red taffeta (thence the name) fixed on a golden spear, in the form of a banner, and cut into three points, each of which was adorned with a tassel of green silk. When Philip I afterwards united Vexin to the possessions of the crown, it fell to him to bear the banner as protector of the abbey. It was now carried with the armies, and eventually became the great standard of the kingdom. Since the time of Charles VII, it has never been carried into battle. (See Lanzelot, Mémoires de l'Académie des Inscriptions, viii.)

ORIGEN, one of the most learned ecclesiastical writers, from his untiring diligence surnamed Adamantius, was born at Alexandria, A. D. 185, and early instructed by his father in the Christian religion and the sciences. His teachers afterwards were Clement of Alexandria and Ammonius. In his early youth, he gave proofs of greatness of soul. When his father was thrown into prison on account of his religion, under the emperor Severus, Origen exhorted him to suffer martyrdom rather than renounce Christimity. After the death of his father, he maintained his mother and sister by giving instructions in grammar. At the age of eighteen, he was appointed to instruct the believers in Alexandria. Males and females crowded to his lectures. 'To es-. cape calumny, he determined to mutilate. himself; and he thought the act was justified by a passage in the New Testament. After the death of Septimius Severus in 211, Origen went to Ronie, where he gained friends and admirers. After his return, agreeably to the desire of the bishop Demetrius, he continued his instructions at Alexandria. A popular tumult compelled him to flee to Palestine. He

was so highly esteemed by the bishops there, that they permitted him to preach in their assemblies. His own bishop, moved with jealousy, recalled him. was distracted by various heresies. On his way to Cassarea, in Palestine, he was consecrated to the office of presbyter by the hishops who were there assembled. This laid the foundation for the persecutions which imbittered the remainder of his life. Demetrius maintained that it belonged only to bimself to consecrate Origen. He summoned two councils, deprived Origen of his priestly office, prohibited him from teaching in Alexandria, whither he had returned, compelled him to leave the city, and excommunicated him. This sentence was confirmed at Rome and by most of the other bishops. But the churches of Palestine, Arabia, Phœnicia and Achaia maintained a connexion with Origen, who denied the errors of which he was accused, and went back again to Theochristus, the bishop there, Casarca. received him as his teacher, and intrusted to him the duty of explaining the Holy Scriptures. In the year 231, his persecutor died, and Origen now enjoyed in tranquillity his well deserved fame. Gregory Thaumaturgus and his brother Athenodorus employed him as their instructer. The persecution of the Christians, under Maximin, forced him to remain for two years in concealment. When peace was restored to the church, by Gordian, in 237, Origen took advantage of it to travel to Athens. He then went to Arabia, to which the bishops of this province had invited him, to refute bishop Beryllus, who affirmed that the divine nature of Christ did not exist before his hut man nature. Origen spoke with such eloquence that Beryllus recanted, and thanked him for his instructions. same bishops called him to a council which they held against certain heretics who maintained that death was common to soul and body. Origen spoke on this subject likewise with such power, that he gained them all over to his own opinions. In a new persecution, under the emperor Decius, Origen was viewed as a pillar of the church, was thrown into prison, and subjected to the most cruel sufferings. . Exhausted by this severity, he died at Tyre in the year 254. Few authors have written so much: few men have been so much esteemed and admired, and yet attacked with such virulence, and persecuted with such severity, both during his life and after his death. He

was reproached with having attempted to blend the Christian doctrines with the notions of Plato. Particularly in his book De Principiis, directed against heretics, was soon after invited to Achaia, which 'and now extant only in the fragments of a translation by Rufinus, he presents a system founded on the Platonic philosophy; but he gives his opinions only as a possibility; moreover, the heretics of his own time, as he says himself, corrupted his writings. He has been accused, without reason, of favoring materialism. He expressly opposes those who consider God as having a corporcal nature. Of his works (represented to be 6000), with the exception of the one just mentioned, there are extant only his Exhortation to Martyrdom, commentaries, homilies, and scholia . on the Hely Scriptures, of which he may have intended to explain the whole. We still have a large number of them; but they are, in general, nothing more than . free translations. He made a general application of the figurative or allegorical explanations of the Jews, and rejected the literal meaning, which he regarded as the mere external part of the former. Besides these exegetical works, he distinguished himself by his critical, talent in his Hexapla (q. v.), of which an edition was published by Montfaucon, and afterwards, by Chr. Fr. Bahrdt. His work against Celsus is considered as the most complete and convincing defence of Christianity which antiquity can boast. His works, complete in four volumes folio, were published by De la Rue (Paris, 1733-59). There has been much contention about the orthodoxy of Origen. In the fourth century, the Arians appealed to his authority to confirm the truth of their doctrines. The most learned and the most celebrated fathers have been found both among his friends and opponents.

ORIGINAL. (See Deer.) ORIGINAL SIN; a moral corruption, which is said to be transmitted from the progenitors of the human race to all their descendants: hence it is also called innate or inborn corruption. Those who maintain this doctrine suppose that our first parents, Adam and Eve, not only lost their own original innocence by the transgression and fall related by Moses (Gen. c. 3), but also imparted to their posterity a moral nature or constitution, by reason of which all men are either so incapable of good, or so prone to evil, that they all actually sin as well as their progenitors. This doctrine has prevailed since Augustine's time, or since the commencement of the fifth century. Its advocates appeal to various passages of Scripture; for example, Psalm.

i, 7; John iii, 6; Romans v, 12-15, and vii, 7-25. It has been controverted, vii, 7 - 25. however, not only by particular religious. teachers, but by whole parties and sects in the Christian church—the Pelagians, Socialians, Mennonites, and others-partly by a different interpretation of the passages in Scripture, partly on general grounds of reason, against such a hereditary taint of human-nature; as it appears repugnant to reason that a moral corruption should beimparted by a physical act, and still more that men should be made answerable for a corruption which was communicated to every one without his consent or joint act.

Orition, in fortification, is a small rounding of earth faced with a wall, raised on the shoulders of those bastions that have casements, to cover the cannon in the retired flank, and prevent their being

dismounted by the enemy.

Orinoco, or Oronoko; a river of South America, one of the largest in the world. Its source has not been ascertained with certainty, but, according to La Cruz, it rises from the small lake Ipava, in lat. 5° 5' N. It has a very circuitous course of upwards (including its windings) of 1500 miles, and flows into the Atlantic, opposite to the island of Trinidad, by about fifty mouths, seven of which are navigable. The principal mouth, six leagues wide, is south-cast of Trinidad, in Ion. 59° 50' W., lat. 8° 30' N. The Orinoco is connected with the Amazon by the Rio Negro and Cassiquiari, and receives the waters of many large rivers, among which are the Meta, Apure, Aranaa, Caura and Caroni. At the distance of 200 leagues from the ocean, it is from 2500 to 3000 fathoms wide; and at St. Thomas, 3850 fathoms; and, in March, when the waters are lowest, it is 65 fathoms deep. During the rainy season, it immdates the immense plains through which it flows, the inundation extending, during the highest floods, from 80 to 90 miles on each side, presenting to the eye a boundless expanse of waters. On the banks of the Orinoco the magnificence of the scenery is beyond description. Forests of the greatest extent are filled with aromatic trees, which diffuse the most delightful odor; birds of the most various and beautiful pluinage abound, and hordes of monkeys follow the astonished traveller. Passing these forests, enormous plains extend their verdant surfaces farther than the eye can reach, and the cataracts of the Orinoce give their name to the whole Cordillera, and are represented as the most tre-

mendous that have ever been observed; but no good description of these falls has yet been given, though they constitute the only outlets from the country situated east of the Andes, to the vast plains of the Andazon.

ORIGIE (icterus, Briss.). The beautiful birds designated under this name are well. known, in all parts of the U. States, by the richness of their plumage and the peculiar form of their nests. They are exclusively found in America, inhabiting the U. States: during the summer, and wintering further south. The female differs widely from the male in brilliancy of color and in size. The young resembles the female very closely. They usually moult but once a year, but the colors are more vivid in the spring, the plumage of the male, in winter, being somewhat like that of the female. They build in trees, fly well, and walk quick, holding the body almost creet. The species inhabiting the U. States are 1. Ballimore (see Ballimore Bird); I. spurius; male bird chestnut; hend, neck, wings and tail black; female and young olive green; beneath yellow; wings and tail dusky. This species is commonly kupwn under the name of orchard bird. It inhabits all parts of the Union in summer, and is far from being uncommon. I. phaniceus, or red-winged blackbird; this bird, so well known for his predatory habits, is found in all parts of the U. States in large flocks. The male is black, with the lesser wing-coverts of a brilliant red; female blackish, varied with whitish. I. xanthocephalus, Yellow-headed troopial, found in the Western territory and Mexico. It is black, with the head, neck and breast yellow orange, and a white spot on the wing. The female is a dark brown: throat whitish, and a round yellow patch on the breast. I. pecoris, or cow-bird; a well-known species, inhabiting the Northern States during the summer, and wintering to the southward. These are the only birds that, like the cuckoo, deposit their , eggs in the nests of other species: they also resemble the European starling, in following cattle and alighting on their backs. The mule is glossy black, with the. head and neck of a deep silky drub. The female is sooty brown, paler beneath. I. agripennus; reed bird or rice bird

Orion; a hero of ancient mythology. He is commonly called the son of Neptune and of Berylla. According to Homer, he was a beautiful youth, of whose charms Aurora became enumored. The gods were jealous of her love, and Diana

Ortygia. According to other writers, he was a king and a great liunter, and; as Homer says, continued, even in the lower world, to hunt in a large meadow the animals he had killed upon earth. 'He was of such gigantic size, that when standing in the middle of the sea, the water only reached his shoulders. If is eyes were put out by (Enopion, whose daughter he had attenuted to carry away. The oracle, attempted to carry away. which he consulted, advised him to stand in the sea, exposed to the rays of the sun. . until he should regain his sight. He died of the sting of a scorpion. Others say that Diana loved Orion so passionately that she wished him for her husband. This condescension so offended her brother Apollo, that he resolved on the death of the insolent mortal. When Orion, therefore, went into the sea, and his head alone was visible, Apollo asked Diana to try whether she could hit with her arrows that dark spot visible above the waters. The goddess shot the fatal arrow, which pierced the head of her lover. She was unconscious of her mistake, until the waves bore his body to the shore. The hero, after his death, was placed, with his hounds, as a constellation, in the heavens. It is the brightest in the northern hemisphere, and still bears his name. (See Constitutions.)

ORISSA; à province of Hindoostan, belonging to the presidency of Bengal, lying in the eastern part of the peniusula, with the province of Bengal on the north, the Northern Circurs on the south, the bay of Bengal on the cast, and Gundwana on the west. The length is probably about 500 miles, and the breadth 100; but it has never been entirely explored. The western part is an almost impassable wilderness of thick woods and jungles, and rugged hills, infested by leopards and other beasts of prey. A great part of the province is extremely unhealthy. It has a population of about 1,200,000 Hindoos, of tlifferent tribes, and Mohammedans. The Moguls conquered it in the beginning of the seventeenth century, and parts of the province afterwards fell into the hands of the Nizam and the Mahrattas. The English acquired possession of it in 1803. (See Mahrattas, and Hindoostan.)

ORKNEY ISLANDS, OF ORCADES; a group of small islands on the northern coast of Scotland, included between lat. 58° 44′ and 59° 25′ N., and lon. 19′ E. and 17′ W. They are irregularly scattered over a space of about fifty miles in length by thirty in breadth. Their number, inthirty in breadth.

slew him with her arrows, in the island of . cluding the uninhabited islets or holms, is about sixty-seven; of these, twenty-nine are inhabited by a population of 27,179 souls; and the rest are used for pasturage and the manufacture of kelp. ries are bare rocks, which are overflowed at high water. The principal island is Pomona, or Mainland, on which is situated the chief town, Kirkwall (2212 inhabitants). The face of the country in the Orkneys is low, presenting, in general, a surface of heath, or coarse pastures, interspersed with spots of cultivated land. destitute of trees or even of tall shrubs. except in a few gardens. There are some spacious and secure harbors on the coasts. They are separated from Scotland by Pentland Frith, which is twelve miles wide. Wild fowl are numerous; the heaths abound with red grouse, plovers, and snipe; engles, wild ducks and geese, solan geese or gamets, swans, &c. are numerous. The skerries swarm with seals; sea otters, , whales, cod, grampuses, oysters, &c., are found. Large seeds are often thrown ashore, which are called Orkney beans: they are carried thither from America by the gulf'stream. The climate is variable and not healthy. In summer it is light enough to read at midnight, and in midwinter the sun is only four hours above the horizon; but the northern lights are frequent and splendid. These islands were known to the ancients under the name of Orcades. They were for a long time under independent Scandinavian princes, called the jarls of Orkney, and, in the middle of the thirteenth century, were annexed to the crown of Scotland.

ORLANDO FURIOSO. (See Ariosto.)

ORLANDO INNAMORATO. (See Boiardo.) ORLEANAIS; before the revolution, a fertile province of France. The Loire passes through and divides it. Orleans, which gave name to the province, was the capital. The forest of Orleans, in this province, contains 94,000 acres.

ORLEANS; a city of France, lying on the Loire; previous to the French revolution, capital of the government of Orléa-nais, at present, capital of the department of the Loiret, with a population (1827) of 40,340; lat. 47° 54′ N.; lou. 1° 55′ F.; 75 miles south-west of Paris. The houses are well built, but the streets in general are narrow and crooked. It has four handsome public squares, a Gothic ca-thedral, a Hotel-de-ville, the Chatelet, a splendid bridge over the Loire, of sixteen arches, and other edifices worthy of notice. The manufactures and trade of the place are still considerable, but

have much declined. Philip of Valois erected it into a duchy and pecrage in favor of his son, and Orleans has since continued to give the title of duke to a - prince of the blood-royal. Charles VI conferred it on his younger brother, who became the founder of the Valois-Orleans the title was borne by the third son of Henry IV, Gaston, who left no male heirs. Louis XIV conferred it on his brother, the founder of the present line of Bourbon-Orleans. (See the succeeding article.) Philip the Fair instituted a uni-, versity here in 1312, which formerly had great celebrity. In 1428, the city sustained a siege against the English, and was relieved by the Maid of Orleans (see Joan of Acc), whose statue, in bronze, stands in one of the public squares.

ORLEANS. Two houses of this name have occupied the throne of France. On the death of Charles VIII, without issue, in 1498, Louis, duke of Orleans, great grandson of their common ancestor Charles V, and grandson of the first duke of Orleans, being the nearest heir, ascended the throne under the title of Louis XII. · (q. v.) Henry III (died 1589) was the lastsovereign of this house, or the Valois-Orleans branch. (See France, division Statistics.) 2. The reigning house, or that of Bourbon-Orleans, is descended from Philip, duke of Orleans, son of Louis XIII, and younger brother of Louis XIV. His son Philip II, duke of Orleans, was regent of France during the minority of Louis XV. His grandson, Louis Joseph Philip, who distinguished himself during the French revolution of the eighteenth century, mar-'ried Louisa, daughter of the duke of Penthièvre (son of the count of Toulouse, a natural son of Louis XIV), and was behended in 1793. (See these articles.) His only surviving son is Louis Philip I (q. v.), king of the French. (See the preceding article, Orleans, city.)

Orleans, Gaston Jean Baptiste de France, duke of; third son of Henry IV and Mary of Medici, born 1608, was involved, without glory, and without success in all the troubles that agitated the reign of Louis XIII and the minority of Louis XIV, four times quitted the kingdom, and four times returned with arms in his hands. His early education was miserable, and was the cause of the feebleness of character which he displayed through life, although he had received , from nature much more, of his father's spirit than Louis XIII, 'The jeakousy which the latter, particularly before his

wife, Ann of Austrie, had borne him children, entertained of his brother; was the first cause of that difference between them, which the duke's vindictive temper never allowed to be permanently healed. By his first marriage, with Mary of Bourbon, heiress of the house of Montpensier line. This line having become extinct, he had a daughter, the author of some interesting Memoirs. (See Montpensier.) To divert the duke from a second marriage, which the jealous king feared, and which even Richelieu esteemed bazardous, no efforts were spared to gratify his passion for play, and for the arts. He continued this life of dissipation until. in the dispute between the queen mother ' and cardinal Richelicu, he took part against the court. This dispute resulted in the triumph of the cardinal. (See Richelicu, and Louis XIII.) The duke of Orleans was also obliged to submit, and in his political conduct and life now displayed that singular vacillation which led the cardinal de Retz to say of him, that he engaged in every thing because he wanted firmness to refuse those who led him, and that he always came off with disgrace because he wanted courage to persevere. When the duke-who, at one moment, full of defiance, took arms against the court, and united himself with the enemies of his brother, and at another, full of humility, submitted to the king and the cardinal-sued for the hand of Mary, daughter of the duke of Lorraine, new disputes broke out between him and The marriage was secretly the king. concluded, and was not made known until two years afterwards to the king, who, by a decree of the parliament of . Paris, had it declared full. This decision gave rise to a war of pens between the inrists and the theologians. The duke continued to take a part in all the troubles, and the validity of his marriage was not acknowledged until after the death of Louis XIII. During the disturbances of the Fronde (q. v.), the vacillating enemy of Richelieu could nor be a steady friend: of Mazarin. (q. v.) He joined the coadjutor De Retz (q. v.), the soul of the Fronde, who soon saw through the character of his fickle and feeble confederate. After the termination of the troubles (1648) the duke was banished to Blois, where he died in 1600. (See the Mémoires of his

daughter, aboye-mentioned.)
ORLEANS, Philip, duke of, only brother of Louis XIV, and founder of the house. of Bourbon-Orleans, now on the throne of France (see Otleans, and Louis Philip I), was born in 1640. Mazarin, who suprintended the supresting of his we prises. In the plant of the plant of the Pasteri round of replies one of, them wanty and the mining of replies one of, them wanty and the mining of the printend of the language. Why, said is in Language of Tanguage. Why, said is in Language of Tanguage. Why, said is a Language of the two with the make the king of inches and the language of the the to the true per per per marrier men-riette (q. v.) of England, sister of Charles II. The great sates which the king showed for this princess excited the qualcusy of his brother. Soon after the return from England, whither the king had sent the to death her brother from the triple alliance, the died suddenly, and her death was attributed to poison, to the administering of which the duke was suspected of being accessory. His jealousy seems not to have been unfounded, according to the accounts contained in the letters of his second wife, Elizabeth Charlotte (q. v.), in which the charge of his being an accomplice in the poisoning is repelled.-See the Mémoires sur la Cour de Louis XIV et la Régence, extracted from her .correspondence (Paris, 1822). The second marriage of the duke, with the princess Elizabeth (1671), was arranged by succession, he received a command an Louis, to secure the neutrality of the Italy; but his opinion was shighted, and of the parties in the approaching war Italy was lost. The king they placed the light of a corps under manufact distinguished himself, and the soldiers said of him that he was more afraid of the sum that of powder and ball. But fie substant of powder and out. Dut the feeliness of his character displayed itself in the life takes. Dress, masquerades, court principality, were his great delights, and his religion, and many stories of the projection. He died in 1701.

confounded with the regent fluke of Orconfounded with the regent fuke of Orleans, afterwards Louis XII), son of the inscending was born in 1674. As regent of Faines, shiring the minestry of Louis XVIII and the property of Louis XVIII and the minestry of Louis XVIII and the minestry of Louis XVIII and the shiring the minestry of Louis And the shiring the way for the reversition by his personal distinction of the shiring the s

gendericement and confidence to make considerable acquisitions, which is much affort. From Heavy 17, waste for imperious receivable, he inherited a confidence and happy temper, a simplicity and spoolines of heart, a readiness to types injuries and the qualities of a warrier; but he wanted the property and strength of mittle. Subject that the type of the contributed to contributed. and example contributed to control to young prince (see Dubois), and, by addin-istering to his vanity and his pleasured by soon acquired a grear ascendency over the pupil. The prince was prevailed highly through the influence of Dubois, and in opposition to the wishes of his mother to comply with the desire of Louis XIV in marrying Mile. de Blois, the legitimated daughter of the king. By this marriage, which was not happy he had three daughters and one son. The duke neglected his wife, who was proud and cold, and, when reproved by the king for his excesses, indulged in a course of secret debauchery. Among his dissolute confpanions (whom he called his roues), and in the society of prostitutes, he ridiculed all notions of morality and the superstitions of the aged king. (See Louis XIV.) In 1692, the prince sarved his first cancer paign, under marshal Litzembourg, in the Netherlands. In the war of the Spanish Berwick, in Spain; but he thought him self not properly supported, and was also offended by the refusal to make his mistress lady of honor to the queen. When the fall of the feeble Philip V, in Sprin, appeared probable, the duke formed the plan of raising himself to the Spanish throne) but his scheme was betrayed and his secondities arrested. It was even minds a sufficient of deliberation at Ver-sailles, whether a process should be in-stituted against him. His enemies of custal him of a design to excite the soldiers of Philip against their kings and the dauphing depanded his execution. and the daublin demanded his execution a maining de Maintenen also held his gully but the chancellor and the virus of the off burgundy, son of the daily him defended him so manyly, that he was fermined in justily filmself. The title from this time, devoted himself to the study of chemistry, with a certain little height of chemistry, with a certain little height and, in 1711 and 1712, the dispersions the stake of Burgundy, he to the continue allegation, dying suddenly, may the son addition the public voice opening addition the the stuke of having poisoned them. On- princess of Chartres. The fatal consenow survived—the duke of Berry, son-in-law of the duke of Orloans, and the duke tivo ladies of the court pretended, was saved only by an antidote. The duke was exposed to great danger from popular violence, and was shumed at court, although the king appeared to be convinced of his innocence. At this time, Louis signed an edict making his natural sons, the duke of Maine and the count of Toulouse, capable of the succession, and, in his will, named a council of regency, in which the duke of Orleans was to preside, but to have no other privilege except that of a casting vote. But the duke had already cased to be unpopular; the military, the noblesse and the parliament were favorable to him, and, twenty-four hours after the death of the king (September 2, 1715), measures were taken for declaring his will null; and the duke of Orleans thus became sole regent, as first prince of the The new regent promised to administer the government on a plan found among the papers of the duke of Burgundy, and was conducted to his palace amidst the rejoicings of the people. The different councils were filled with his friends, and the abbé Dubois, who was commonly known by the name of the abbé Friponneau, was made a counsellor of state; on which occasion the regent said to him, "A little honesty, abbé, I beg of you." Dubois soon had an opportunity to render himself serviceable. Since the peace of Utrecht, France had stood alone. The measures of the regent raised the suspicions of the king of England. "The Dutch had still less confidence in · the French policy, and inclined more to the Austrian court, which was by no . means on good terms with France; and with Spain the duke was involved in personal frostility. An alliance with England could alone render him secure; and Dubois not only effected this, but also the accession of the states-general, the consequence of which was the celebrated triple ulliance concluded at the liague (January . 4, 1717), which baffled the plans of Alberoni, and entirely divided the Spanish and French houses of Bourbon in their political course. Notwithstanding this, that minister of foreign affairs, afterwards con-French and Spanish courts, by the mar-

the manner in which it was executed, and to the inconsiderateness of the regent, of Anjou (afterwards Louis XV), who, as who expected to obtain, by means of it, a mine of gold for his mistresses and favorites. He endeavored, without success, to raise the bank notes and public paper to their nominal value, by a depreciation of the value of the metals, and finally issued the tyrannical edict (February 24, 1720) that no person should have in his posses-. sion more than 500 livres in silver, coined or uncoined, under the penalty of 10,000 livres. All credit immediately disappeared, and the first seeds of the revolution were sown. The regent, who hated all exertion, left the ministers to conduct affairs at their own pleasure, and the politics of his court became very vacillating. He obliged the legitimated sons of Louis XIV to renounce their claims to the succession and the privilege of styling themselves princes of the blood. To revenge this act of violence, the duchess of Maine entered into a conspiracy with the Spanish minister Cellamare (q. v.) to displace the regent. The duke pardoned her, but some of her accomplices perished on the scaffold. De Mesmes, president of the parliament, protested to the regent his innocence of any participation in the plot; but the latter proved his guilt and pardoned him. In other respects, justice was strictly and impartially administered. A count Horn was condemned to be broken alive for the murder. of a banker. The family and the courtiers represented to the regent, that the count was connected with the most illustrious families, and even with himself. "Gentlemen," replied the prince, "the shame is in the crime, not in the punishment; and as for myself, I will bear my part of the disgrace." In 1723, lie finally resigned the government into the hands of the young king, whom he had gradually made acquainted with affairs in an unrestrained manner, and gave himself up to the wildest excesses. Yet, after the death. of Dubois (August, 1723), he took upon himself the duties of premier, and would allow his fuvorite roues no share in affairs; and it is remarkable, that, even in his. orgies, no state secret ever escaped him. He died in December, 1723, of apoplexy, subtle politician, who had been made the consequence of his excesses, at the age of forty nine. For an account of cluded a double alliance between the the regent and the regency, see Marmon-French and Spanish courts, by the martel's Régence du Due d'Orléans (Paris, riages of Louis XV with an Infanta, and 1805); St. Sidon's Manaires; and parof the prince of the Asturias with the ticularly Sevelinges's Memoires, secrets et Correspondance inedite du Cardinal Du- the destitute were refeived and fed. Haybois (Paris, 1815).

ORLEANS, Louis Joseph Philip, duke of, great grandson of the preceding, was born in 1747, and until the death of his father, in 1787, bore the title of duke of Chartres. During the revolution he acquired an unfortunate notoriety, and, even In his youth, was distinguished for his unbridled licentiousness. His wife, Louisa Mary Adelaide de Penthièvre (born 1753). whom he married in 1769, inherited the virtues and piety of her father, the duke of Penthievre. The duke of Chartres was accused of having seduced her brother, the prince of Lamballe, to participate in his excesses, for the purpose of ruining his constitution and inheriting his estate. This marriage was only a source of unhappiness to the duchess, who turned all her thoughts to the education of her sons, of whom the only survivor now occupies the throne of France. (See Louis Philip I.) Nature had done much for the duke of Orleans. fortune yet more: he was immensely rich: his person was rather above the common stature, and his countenance was pleasing, until his debaucheries had distigured it with eruptions. He was dexterous and active in bodily exercises, not without intelligence, but ignorant and credulous; a good-natured, weak man, without any de-After having incision of character. dulged to satisty in all sensual pleasures, he found a new kind of excitement for his palled appetites in the storms of the revolution, and a new source of pleasure in the gratifications of revenge. public life was entirely the work of circumstances. Entitled by his birth to the place of grand-admiral, he commanded a division of the fleet against Keppel, in the action off Ushant, in 1778; but his division was not brought forward: the duke was accused of cowardice, and, instead of being created grand-admiral, he was made colonel-general of hussars. From this time may be dated his hatred of Louis XVI. Several years later, he was chosen grand-master of the free-masons in France; and, in 1788, on the beginning of the disputes between the court and the parliament, he embraced the popular cause, and

ing been nominated to the states-general as deputy of the noblesse of Crespi, in Valois, he espoused the cause of the third estate. Want, of courage, only, prevented him from appearing at the head of the populace. On the 12th of July, 1789, he. appeared among the crowd in the garden of the palais royal; but his courage failed. him, and he soon withdrew into his palace, His adherents now used him merely for their own purposes, and flattered his antbitious hopes so long as he was necessary He caused scandalous libels to them. against the queen, whom he pursued with the most bitter hatred, to be distributed; and his bust was carried in triumph through the streets by the populace. The attempts of the 5th and 6th October, of which he is considered the instigator, were but partially successful. Lafayette: threatened him with a legal investigation, and the terrified prince obtained permission of the king to retire to England. He returned in eight months, took the civic oath, and was acquitted, by the assembly, of the charges brought against him. On the flight of the king, he declared that he should decline the regency in case it were offered to him. An attempt was made at this time to reconcile him to the court, and the negotiations had taken a favorable turn; but the courtiers, who knew nothing of the matter, treated him with the most insulting contempt, on his appearance at court, in January, 1792, and even spit upon him as he went down stairs; and he was thenceforward the irreconcilable enemy of the king and queen. The 20th of June and the 10th of August (1792) must have convinced the duke that a stronger party than his own had now acquired the ascendency. He was returned to the national convention as member for Paris, with Marat, Robespierre and Danton, and, in September, 1792, he assumed the name of Egalüć, and, in December, declared, through the press, his renunciation of his right of succession to the throne. On the trial of the king, he voted for his death, and was ... present at the execution. The Jacobius, who had no longer any occasion for him, now abandoned him: he was struck from opposed the king in the scance-regale of their rolls, and included in the general pro-November 19, on which account he was scription of the Bourbons. He was in-banished, but treated with marks of honor prisoned at Marseilles, but was afterwards by the people. He then purchased large quantities of corn, for the purpose of supplying the poor gratuitously or at low conspiracy against the republic. He prices, and, in 1788 and 1789, caused heard his sentence with calmbest, and warm sooms to be prepared, into which died with firmness on the same day (November 6, 1793). His wife, who returned Elizabeth, and had her carried to Peters-

Louis Philip I.)

ORLEANS, MAID OF. (See Joan of Arc.) ORLEANS, NEW. (See New Orleans.)

ORLEANS TERRITORY. (See Louisiana.) Orlor; a Russian noble family.— Gregory Orloff was one of five brothers, who lived a dissipated life. After his fortune was ruined, he supported himself by gambling and other arts. He served in the seven years' war, and, when count Schwerin was taken prisoner, carried him to Petersburg. The grand-princess Catharine, who had just lost her favorite Poniatowski, fell in love with him. He and his brothers assisted her much in the revolution by which she was declared empress, and her husband, the emperor Peter III, deprived of life. Orloff soon attained the highest dignities; was allowed to wear the picture of the empress in his buton-hole; and became enormously rich. But Orloff was rude and inconsiderate, so that, after some time, the empress wished to rid herself of him. He was sent to Moscow to take measures against the plague, and, when he returned, was represented on a medal and triumphal arch in the character of Curtius. He was then sent to Fockschani, in Walachia, to attend a conference with the Turks, whom, however, he offended by his overbearing character; and the object of the meeting was The empress now sent him into a sort of banishment, ordering him to remain at one of her castles, to be chosen by him-He went to Zarskæ-Selo. In 1772, however, she became reconciled to him. She gave him a magnificent palace, and ae gave her, in return, the celebrated dianond. He now travelled, married, and seemed to live happily. Potemkin, at this ime, had become the lover of the empress. Orloff died in 1783, after having been for ome time subject to periodical attacks of nsanity .- Alexis, his brother, showed, durng the revolution in 1762, great courage. Disguised as a coachman, he drove the empress from Peterhoff in a mean cariage. He was one of the murderers of, Peter III; rose soon to high dignities in he army; and, in 1768, was made admial of the Russian fleet in the Archipelato, with unlimited power, against the Turks, whom he defeated off Tschesme; curks, whom he descated off Tschesme; man, resting upon the printeval bull, the or which exploit he was called Tscheston of the whole organic creation.

ORNE; a department of France. (See nenskoi. He was yet in the fleet when his ORRE; a department of France. (See prother lost the favor of the empress. In Department.)
Leghorn, he deceived the daughter of Ornitalization.

to Paris after the restoration, died there in burg. When he' returned, he was brilliantly received. When Paul I ascended ORLEANS, Louis Philip, duke of. (See the throne, he and Baratinski, the only survivors of the reputed inurderers of Peter III, were obliged to attend the real oval of the body of the murdered emperor from" the convent of Alexander Newski to the fortress, during which ceremony they had to bear the corners of the pall. He remained ever after in disgrace, and died in 1808.

Orlorr, Gregory, count of, Russian sonator, privy-counsellor and chamber-lain, who distinguished himself in the sciences, was born in 1777, and was ele-vated to the senatorship in 1812. He was a member of many academics and learned societies, and died in 1826, at Petersburg. His chief works are Mémoires historiques, politiques et littéraires sur le Royaume de Naples, &c., with notes by Duval (2 ed., 5 vols., Paris, 1825), translated into German, English and Italian, and embracing the history of Lower Italy from the earliest times until 1820; Histoire des Arts en Malie, the two first volumes of which treat of music, the others of painting; Voyage dans une Partie de la France, ou Lettres descriptives et historiques (Paris, 1824).

Orlor; a platform of planks laid over the beams in the hold of a ship of war, whereon the cables are usually coiled. It also contains the sail-rooms, the purser's, surgeon's, boatswain's and carpenter's cabins, and the several officers' store-rooms. In three-decked ships, the second and lowest decks are sometimes called orlops.

Ormond, Duke of. (See Butler, James.) ORMUZD is one of the spirits mentioned in the Zendavesta. He is subordinate to the Zeroene Akerene (infinite and uncreated time), from whom he receives his, power. He is the first-born of all beings, produced by the mixture of original fire and water, infinite, immortal, incorruptible. He was represented as the king of the world, and sitting in the midst of heaven, upon a high throne, "the throne of the good and the perfect," surrounded by celestial spirits and the souls of the happy. He was called the eternal source of sunshine and light: the sun and moon received their brightness from him. He carried, as a badge, upon his hand a ring, the symbol of his supreme power, and is sometimes represented as crowned with rays. He is also described as a venerable old

solence which trents of the festhered tribe, rated, to give room for the development, or, to use the definition of Cuvier, of ver- of the eggs. The bill of all birds consists tebrated oviparous animals, with a double circulation and respiration, organized for flight. The symmetry and beauty displayed us the graceful forms and variet colors of this part of creation, strike the most casual and inattentive observer; and the wonderful adaptation of their structure to their peculiar habits and modes of living, s a source of constant admiration to the student of nature. Almost every peculiarity in the external appearance of birds is fitted for the element they inhabit, and conducive to swiftness of motion. Every part · of their frame is formed for lightness and buoyancy: their bodies are covered with a soft and delicate plumage, admirably calculated to protect them from cold or moisture; their wings, although of the lightest materials, are furnished with muscles of such power as to strike the air with great force, and to impel their bodies forward with astonishing rapidity, whilst the tail acts as a rudder, by which their course can be directed at pleasure. Their internal structure is in perfect consonance with those external peculiarities. Their lungs are fixed against the ribs, and enveloped with a membrane pierced with large holes, which permit the air to pass into cavities in the breast, abdomen, and even into the interior of the bones. This conformation , not only renders them more buoyant, but also prevents any interruption in their resparation, by the rapidity of their motion . through a resisting medium, and increases their vital energy. Some idea may be formed of the capacity of birds for respiration from the fact stated by Lavoisier, that two sparrows consume as much air as a Guinea pig. The anterior extremities of birds, being solely fitted for the action of flying, are uscless either for resting or grasping; hence these animals are biped, and take objects from the ground with their mouth, for which purpose the neck and beak are elongated and very movablo; the body is also inclined forward beyoud the feet; the thighs are in advance, and the toes of such a length as to form a sufficient basis. The petvis is very long, to give origin to muscles supporting the trunk on the thighs, and a set of muscles pass from the pelvis to the toes, so arrangweil that the simple weight of the bird retains the toes in a flexed condition; in consequence, they are able to sit perched upon one leg with security, and without becoming anigued. The posterior parts

of two mundibles, the upper and lower, the former being generally fixed and immovable, though in the parrots it has the power of motion to assist them in climbing. None of the feathered tribe have teeth, but the horny case which covers the mandibles supplies the place of these instruments, and is sometimes serrated, so as to resemble them. In some birds, as the falcons, the base of the brak is covered with a skin called the cere; and in the turkey, the carrier-pigeon, &c., it is covered with a cameous appendage. The bill's is in some kinds straight; in others curved-, upwards or downwards; in some flat; in others conic, wedge-shaped, or hooked, &c. It enables the bird to take hold-of his food, to strip or divide it, to carry materials for building his nest, or food to his young, and is a formidable weapon in the rapacious tribe. The nostrils are usually of an oval form, and placed near the base of the beak. The eyes are so disposed as to distinguish equally well near and distant objects, and their sense of sight is exceedingly acute. The sparrow-hawk discorns small birds from an incredible distance. Besides the ordinary cyclids, there is a third, called the nictitating membrane, which is translucent, and defends' the eye of the bird from the direct rays . of the sun, without obstructing the sight. Birds have no external car, with the exception of the nocturnal tribes: these have a large exterior conch, in the form of a thin leathery piece of flesh. The internal ear, however, is very large, and their sense of hearing very quick. The brain of birds is distinguished by its great proportionate size, and appears to be formed of tubercles, and not of convolutions. Their digestive powers are very great: the stomach is composed of three parts—the crop, which is a thin membranous expansion; succenturium, also a membranous pouch, furnished with a multitude of glands; and the gizzard, which is provided with two strong muscles, covered inside by a velvet-like cartilage; here the food is ground, or triturated, and its action is aided by the presence of small stones; which birds swallow for that purpose. The coverings or feathers of birds are admirably calculated for security, warmth, and celerity of motion. They are of three kinds; down, smaller feathers, and quills (flocer, plume it penna). The feathers which invest the body have small shafts. coping pelvis (in common language known; and large vanes, and are placed over each as the side-bones) are clongated and cope, other like shingles, so as, at the same time, 1,436

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to permit the water to ran off and to ex- answer exactly to the wants of each species. vanes, which in the wing feathers are broad on one side and narrow on the other, consist of a number of small lamina, which are connected by the interlacement of a multitude of minute bristles. largest quill-feathers in the wing, or those nearest the extremity, are termed primaries; those which arise from the fore-arm are called secondaries; and the weaker feathers attached to the humerus are designated as scapulars. The quill-feathers of the tail are large and strong, having their vames almost equal in size: they are generally twelve in number, but sometimes, especially in the gallinaceous birds, eighteen or twenty. The feathery covering of birds constitutes their peculiar beauty: on this, nature, particularly in the warmer climates, has lavished the most splendid colors. The size of the wings is not always in proportion to the bulk of the bird, but is accommodated to its manner of living. Accordingly, birds of prey, swallows, and, in general, such birds as are intended to hover a long time in the air, have much longer wings, in proportion to the size of their bodies, than quails, domestic hens, &c. In the ostrich, the cassowary and the penguin, the primaries are wanting entirely. The flight of birds , differs very much from that of bats, insects, and other volant animals. Many birds, as falcous, sour holdly above the s clouds, whither no eye can follow them, and hover for many hours, without perceptible exertion, in the air. Likewise swallews, larks, and some other kinds of birds sail to considerable distances with little effort; others, as sparrows, have a fluttering flight. Some, as the owls, fly without any noise; others, as the partridge, &cc., with a loud whire. The flight of a young bird resembles the tottering steps of an infant. You see distinctly how anxiously he seeks for the nearest restingplace, and how soon he is tired. The tailserves as a rudder in most birds; the long legs of the cranes and other waders appear to serve the sume purpose. The legs in different genera of this class are so diversified in shape, that many naturalists have considered these differences sufficient for distinguishing marks of different orders. Being adapted either for resting inponferes, for swimming or running, they

clude the cold. The down is placed un- From their food, manner of life and loosder these, and serves as a further protection motive powers, birds would seem destined: tion against the cold: hence it is most to become inhabitants of every part of the abundant in those species that inhabit the globe; and, in fact, the cold and barren repolar regions. The quill feathers are pringions of the north and the sultry stains cipally found in the wings and tail. The of the tropical climates, become the alternate residence of the same birds at different sensons of the year. At particular times in the year, most birds remove from one country to mother, or from inland districts to the sea side. The periods of these migrations are observed . with wonderful accuracy, though they are somewhat regulated by the temperature of the seasons. Some species, however, " are stationary, as many of the birds of prey. (For a particular account of the migration of birds, see the article Migra-tion of Inimals.) The food of birds, like that of quadrupeds, is derived from the animal and vegetable kingdoms, and, like them, they may be divided into the granivorous and carnivorous, and some which hold a middle rank; and their dispositions and habits, as in quadrupeds, are influenced by the nature of their food: whilst the carnivorous are fierce and untamable. the granivorous are mild, gentle, and easily domesticated; their flesh, also, is more wholesome and palatable. Birds, however, are more indiscriminate in their food than quadrupeds, and more frequently supply the deficiency of one kind of food by another; and in the young state almost all kinds are carnivorous or rather insectivorous. In mental capacity, Birds fully equal quadrupeds, and, in some respects, surpass them. Parrots, starlings, &c., retain in memory many words and phrases which they have been taught, and many singing birds whole melodies. Their powers of memory scem also to be evinced by the fact that birds of passage, after an absence of six months, or evena longer time, and after travelling thousands of miles, return to their former home: the swallow to her beam, the finch to the tree where last year she reared her young, or where she herself was hatched. The difference between such birds as love to dwell in uninhabited places, secure from persecution, and such as are found in the persecution, and such as are sometimene, neighborhood of men, surrounded by dangers, is a proof that their prudence, cunning and docility can be awakened and improved. The field sparrow is less cunning than the house sparrow, which has daily opportunity to observe the hostile intentions of man. In desort countries, birds will alight upon the barreltof. the hunter's gan when he levels it against

ORNITI upon the shoulder excited the suspicions of the wild goose. The voice is a peculiar gift of nature, by which the greater part of birds are distinguished from all the rest of the minual world. The windpipe of birds is composed of entire rings of cartilage. with an exception in the case of the ostrich. At its bifurcation is a glottle supplied with appropriate muscles, called the lower or inferior larguz. It is here that the voice of birds is formed; the vast body of air contained in the air-cells contributes to the force, and the windpipe, by its form and provements, to the modification of the voice. The superior larynx is very simple and unimportant. The gift of song is given to the male birds only, and their notes are mostly an expression of love; hence they are heard singing chiefly at the time when they are pairing. The birds sing only when they are cheerful. In sadness, during rough weather, and in bodily disorders, they are silent. It is commonly said that the gift of song is confined to the birds in northern climates, and that nature, in the warmer regions, has endowed them, instead, with more brilliant colors; but Foster relates, that in Otaheite the birds sing with charming sweetness; and Cook, on his first voyage, found the forests of 'Queen Charlotte's sound, in New Zealand, filled with little birds, whose voices sounded like silver bells. To no other animal have such various tones been granted for giving utterance to different feelings; hunger, fear, the dread of immiment danger, desire for society, or longing for his mute, love, metancholy, & c., are ex-, pressed by a variety of notes, which make a language intelligible not only to birds of the same species, but often to the other tribes. When one of the songsters of the wood perceives a bird of prey, the whole forest grows silent at his warning voice. Birds are spread over the whole carth; a few species extend even from the polar circles to the tropics: their places of abode are suited to their wants and peculiarities, and cmbrace rocks and dens, trees and shrubs. earth and water. Whilst wood-peckers and parrots pass all their time upon trees, partridges, quails, &c., remain on the ground; storks and herons visit the marshes; swans and water-fowl live in rivers and ponds. Birds are in general very long-lived, although their growth is tapid, and their period of procreation very early. In quadrupeds, the duration of the period at which they attain their full

A cock arrives at maturity in a year, and yet has been known to live upwards of twenty years; a linnet fourteen; parrots forty; and eagles a hundred years. From this longevity of birds, it is probable that they are subject to few diseases. The only one which is universal to them, if it can be termed a disease, is moulting, or the operation of changing their plumage, during the continuance of which, they are sickly and disordered, and many die, This process, which occurs every year, appears to be performed in the following amanner: When the feathers have attained their full size, the pen part, nearest the o bird, grows harder, and shrinks in its diameter, thus gradually compressing, and finally obliterating the vessels which supply it with nourishment, and thus becomes an extraneous body, which is at last loosened in its socket, and fidls off. Whilst these changes are taking place, : the rudiments of the new feather are forming beweath, which rapidly attains its natural size, after it has been protruded through the skin. This process, it will * be seen, is very analogous to the annual shedding of the horns in the deer tribe. (See Deer.) Most birds pair at certain seasons, and continue this conjugal union whilst the united efforts of both are necessary in the formation of their temporary babitations, and in the rearing and maintenance of their offspring. Some birds, however, especially among those of prev. continue their attachment to each other for a much longer period; sometimes even for life. In general, birds are more prolific than quadrupeds, and their productiveness is visibly increased by domestication. There is a remarkable circumstance connected with this subject, and which is peculiar to the feathered race—a bird, when she has produced her usual number of eggs, ceases, in ordinary cases, to lay. If, however, by any accident, these eggs are destroyed, she will again lay the same number. This is strongly marked in the common hen, who, if her eggs are constantly taken away, does not begin to hatch, but goes on producing eggs to an almost indefinite extent. The evation of birds is considered as an important part of their history, and is closely attended to a by writers on ornithology. Almost all birds incubate, or hatch their eggs, by keeping them at a uniform temperature. by brooding over them. The estrich and cassowary, however, do not perform this? Alife usually bears a certain proportion to maternal duty, merely depositing their eggs in the sand, and leaving them to le die period at which they atum their run eggs in the powers; but it is very different with birds., hatched by the heat of the sun. (For the process of incubation, see Incubation, care is confined to leading them to their. Before laying, all other birds are directed food, and teaching them how to collect it. by instinct to the operation of building a uest or habitation for their young. The indification of birds has deservedly been a subject of much admiration; for they construct these temporary habitations with such exquisite skill as to exceed the utmost exertion of human ingenuity to imimost exertion of human ingenuity to imi-tate them. Their mode of building, the materials employed, and the situations selected, are as various as the different kinds of birds, and yet are all admirably adapted to their several wants and necessities. They conceal them carefully from the eyes of rapacious animals and of men. and their caution is greater in proportion to the dangers by which they are sur-rounded. The materials are carefully selected, and are generally united with great art. In the larger number of species the female is the principal builder, whilst the male carries the materials. give a detailed account of the construction of nests, would swell this article be-yond all due bounds. Those who wish for full information on this interesting subject. will find it pleasingly and elaborately detailed in Rennie's Architecture of Birds. When the building is finished, the female lays her eggs: several water-birds lay but one, birds of prey two, crows and ravens four, the titmouse from eight to twelve, domestic hens forty to fifty. The eggs differ in size, form, color, &c., according to the peculiarities of each species. After the warmth of the brooding female (in many species the male assists the female in this business) has developed and matured the germ in the egg, the young break out of the shells, and the love, tenderness and care now shown by the parents are ad-The mother warms the naked mirable. brood under her wings, whilst the father brings the choicest food. The feeble swallow defends herself and her young ones, or dies together with them; the domestic hen runs along the pond with cries of auguish when the young ducks which she has hatched, have been carried by their instinct into the water. the young are produced, the next object of parental care is their protection and support, and these duties are fulfilled with astonishing spirit and industry. The most timid become courageous in defence of their progeny, and willingly expose themselves to danger to shield their tender and helpless offspring. The young of those birds who build on the ground are generally able to run, soon after they are excluded from the shell, and the mother's

ly taught to fly, and, qualified to provide for themselves, the parents forsake them, as no longer needing their care. Birds, although the most marked of all the classes of animals, resemble each other so closely in their specific characters, that their subdivision is extremely difficult. Like the ... mammalia, their distribution into orders is founded on the organs of manducation and those of prehension. From the difference of these organs, naturalists have arranged birds in various orders. The following is that adopted by Cuvier in the last edition of his Animal Kingdom:-- . 1. Birds of Prev (accipites, Lin.); distinguished by their crooked beak and claws, by mear... of which they are enabled to overcome and prey upon other birds, and even the weaker quadrapeds. They hold the same rank among birds as the carnivora among quadrupeds. They all have four toes, and the mails of the great and middle toes are the strongest. They torn. two families, the DIURNAL and NOCTURNAL: the first having nostrils inserted in a naked cere, three toes before and one behind, without feathers; eyes directed sideways: the second having nostrils at the anterior edge of the cere, which is more or less covered with stiff hairs; external toe capable of being turned behind; eyes large, directed forwards.-2. Passenine (passeres). This is the largest class, and embraces all birds which do not belong to the other five; they present a great resemblance in their structure, and the genera are so closely allied that it is difficult to distinguish between them. They may, however, be separated into two great divisions; It those with the exterior toe united to the middle one by one or two joints only; 2. exterior toe almost as long as the middle one, and united to it us for, as the last joint but one. -3. CLIMBERS as the last joint out one.—3. CLIMBERS (scansores); birds whose exterior toe directs itself backwards like the great toe, affording a very solid support, by which some of them profit in clinging to, and climbing the tranks of trees.—4. GALLI-, naceous Brans (gallinaces). These lave a heavy gait, a short flight, a medium and book the more flight, a medium and book the more flight. to run soon after they are ed, nostrils partily covered by a cartilaginate the sliell, and the mother's nous scale, toes generally dentated at the

edges with short membranes between those in front.—5. Wapers (gralle) may be recognised by the nudity of the lower part of their thighs, very frequently the length of their legs, generally some little well at least between the external toes. In flying, they extend their legs behind them, contrary to the habit of other birds, who draw them up close to the body. -6. WEB-FOOTED BIRDS (valmipedes) formation of the beak.

are strongly characterized by their feet, formed for swimming, that is, being affixed to the hinder part of their body, with very short and compressed tarsi; and They are palmated between the toes. the only birds in which the length of the neck exceeds that of the legs.- Each of these orders is subdivided into families and genera, principally according to the

ORDER I. ACCIPITRES.

Family 1. DIURNÆ.

Genus 1. Vultur, Lin. 2 Gypætos, Storr. 3. Falco. Lin. Sub-genera, 14.

Family 2 NOCTUÆ. Strix, Lin.

⊁ub-genera, &

ORDER II. PASSERES. Fumily 1. DENTIROSTRES.

Lanius, *Lin*. Muscicapa, Lin. Ampelis, *Lin.* Edolius, Cur. Tanagra, Inn. Turdus, Lin. Myothera, Illig. Cinceus, Bechst. Philedon, Cuv. Eulabes, Cuv. Gracula, Cuv. Pyrrhocorax, Cuv. Oriolus, Lin. Gymnops, Cuv. Mænura, Sh. Motacilla, Lin. Pipra, Lin. Burylaimus, Horsf. Sub-genera, 40.

Fimily 2. FISSIROSTRES Hirundo, Lin. Caprimulgus, Lin. Sub-genera, 3.

Family 3. CONTROSTRES.

Alauda, Lin. Parus, Lin. Emberiza, Im. Fringilla, Lin. Loxia, *Briss*. Corythus, Cuv. Colius, Gm. Buphaga, Briss Cassicus, Cuv. Sturnus, Lin. Corvus, Lin. Coracias, Lin. Paradisea, Lin. Sub-genera, 21.

Family 4. TENUIROSTRES.

Sitta, Lin. Certhia, Lin. Trochilus, Lin. Upupa, Lin.

Sub-genera, 16

Family 5. SYNDACTYLES.

Merops, Lin. Prionites, Illig. Alcedo, Lin. Ceyx, Lucen. Todus, Lin. Buceros, Lin.

> ORDER III. SCANSORES.

Galbula, Briss. Picus, Lin. Yunx, Lin. Cuculus, Lin. Malcoha, Vaill. Scythrops, Lath. Bucco, Lin. Trogon, Lan. Crotophaga, Lin. Ramphastos, Lin. Psittacus, Lin. Corythnix, Illig. Musophaga, Isert. Sub-genera, 17.

> ORDER IV. GALLINÆ, Lin.

Alector, Merrem. Pavo, *Lin.* Meleagris, Lin. Numida, *Lin*. Phasianus, Lin. Tetrao, Lin. Hemipodius, Tem. Tinamus, Lath. Columba, Lin.

Sub-genera, 24.

ORDER V. GRALLÆ. Family 1. BREVIPENNES. Struthio, Lân. Casuarias, Briss.

Family 2. PRESSIROSTRES Otis, Lin. Charadrius, Lin. Vanellus, Bechst. Hæmatopus, Lin.

Cursorius, Lacep.

Cariama, Briss. Sub-genera, 4.

> Family 3. CULTIROSTRES

Grus, Cuv. Cancroma, Lin. Ardea, Cuv. Ciconia, Cuv. Mycteria, Lin. Scopus, Briss. Hians, Lacep. Tantalus, Lin. Platalea, Lin.

Súb-genera,

Family 4, LONGIROSTRES.

Scolopux, Lin. Recuvirostra, Lin. Sub-genera, 15.

> Family 5... MACRODACTYLES.

Parra.Lin. Palamedea, Lin. Megapodius. Railus, Lin. Fulica. Lin. Chionis. Forster. Glareola, Gm. Phoenicopterus, Lin. Sub-genera, 2.

ORDER VI. PALMIPEDES

Family 1. BRACHYPTERES.

Colymbus, Lin. Alca, Lan. Aptenodytes, Forst, Sub-genera, 9.

> Family 2. LONGIPENNES.

Procellaria, *Lin.* Diomedea, Lin. Larus, Lin. Sterna, Lin.

Rhynchops, Land ...Sub-genera.

> Family 3. COTIPALMES

Pelecanus. Lin. Plotus, Lin Phaeton, Lin.

Sub-genera, 5.

Family 4. Lamellirostres. Anas, Lin.

Mergus, Lin.

Sub-genera, 13.

OROGRAPHY (from oper, a mountain, and γραφω, I write); the description of mountains, their chains, branches, &c.

ORONOCO. (See Orinoco.) Orphan Asylums; establishments in which orphans who have relations able to support them are provided for and educated. In Europe, where there are comparatively more paupers than in the U. States, the care which society at large is bound to take of destitute orphans is, in many countries, an important point of political economy. The question of most consequence, in relation to the public support of orphans, is, whether it is best, in a moral, physical and economical point of view, to bring up large numbers of orphans in great establishments, where they live together, or to put them out singly in trustworthy families, paid by the community. In Germany, this question has been long and thoroughly discussed; and it appears that the majority of persons in that country, conversant with the subject, prefer the plan of bringing them up in separate families. Both systems have their inconveniences and advantages. It would appear to be cheaper, as well as better for the morals of orphans, to educate them in . separate families; and, in the way in which asylums have been generally conducted on the continent of Europe, the health of the children has appeared not to be so well taken care of as in families. Some asylums, however, form brilliant exceptions, as the great asylum at Pots-The history of the dam, near Berlin.

ander Severus, established foundations for them; but such institutions do not seem to have become frequent till the introduction of the Christian religion. In the middle ages, however, in which so many institutions beneficial to mankind originated within the walls of thriving and opulcut cities, orphan asylums became frequent in such places, particularly in the larger commercial towns of the Netherlands. In Germany, the first asyltims are found in the free cities; yet their origin does not go beyond the sixteenth century. One of the most famous asylums in the world is that established by A. H. Franke (q. v.) at Halle, in 1698.

ORPHRUS; one of the old sages and bards of the Greeks (about forty years before the Trojan war); according to common accounts, the son of the muse Calliope and the Thracian river-god Oagrus: according to others, of Apollo. He was educated by Linus, together with Thamyris and Hercules. His melodious voice, and his lyre with seven strings, as the story says, drew after him rocks and trees, tamed the wildest animals of the mountain forests, and calmed the whirlwinds and tempests. Some poets mention himas a king of Thrace; and the Argonautica. (which goes under his name, though unquestionably a later production) calls him the sovereign of the Ciconians, rich in herds. Ovid also represents the ceremony of his marriage with Eurydice, or Agriope, as having taken placesthere. Af-ter the death of his beloved wife, the dis-consolate poet wandered over the earth. and puelle altinentarii, cannot properly be compared to our publicly supported osphans. Trajaf, who did much in favor bration of Bacchanalian orgies, that they of orphans, both the Antonines, and Alexpieces in their madness. According to the Argonautica, on the contrary, Orphous had already reached a renerable old are when he sailed for Colchis He had no viously visited several other countries, and especially Egypt, Hursched with knowl edge, he returned, and instituted among the Greeks the Dronysan and other mysterres. He amended and regulated then religious doctrines, and led a life of sin He was the inventor or ույս թառ maker of the lyre, the oldest musical in strument adapted to soften the hereeness The ancients frequent of -wagenminds ly mention his works, yet it is certain that n never wrote any thing, but his ideas, us doctanes, and fables, thrown into a poetical torm, have been handed down by At a very culy p mod, poems - inded to Orpheus were in enculation noughout Greece but even in ancient n - doubts wer felt with regard to then theatiens, in lat is probable that, is only is the use of Anstotle, none of them ere entucly authentic, but that they con unce portions of the poet's doctrines We possess under the name of Orpheus in Argonautica (edited by Schneider, Je 11, 1803) some suited hymns a work con the properties of inmerals probably ci the fointh century after the Chastin er edit d by Tyrwhitt, London, 1741), and s veriffigments. The best chion a these works is that of Hermann (Leip vi, 105) The Orphic poetry embrucs be whole eyele of the content religious lectures, and the doctrines of the myste - - bee George Hemy Bode - Orphe

Poetarum Gra orum arti pursimus, n prize essit (Gottingen, 1824, Iro)

ORITRY, in istremental instrument I exhibiting the motions of the heavenly they was first constructed by Girham, it its name is denied from one made by howley for the carl of Oriciv, which was supposed by sir R Steel to be the first ever constructed, and he therefore give it the those nume, in honor of the cul, and (secubing the invention to Mr Rowley,) vos nime it his ever since retuned, i much the circi on which it was adopted has long been corrected

Cherry (Charles Boyle), end of, second s n of Roger earl of Orrery, was born, in 1676, at Chelsen, and, at fifteen, entered at Christ-Church, Oxford While there, he published a new edition of the epistles of Phalatis of which doctor Bentley questioning the authority, he wrote an answer entitled Doctor Bentley's Dissertation on the Epistles of Philans examined, which produced the controversy with doctor

Bentley (q. v.), in which the wit was all on one side and the truth on the other the death of his brother, he succeeded to the euldom, and, m 1700, was sworn of the queen's privy council He was also envoy-extraordinary from the queen to the states of Planders and Brabant, at the cantical period of the trenty of Utrecht, and, on his return, was rused to the diginty of a British peer, under the title of lord Boule He actued from court soon atter the accession of George I, and, in 1722, was sent to the Power on suspicion of being concerned in I wer's plot, but was discharged after six months imprison-Besides the edition of Phalmas, he ment published a coincdy, called .7s you find ft, ind some verses. He died in 1731 His name has been given to a well-known astronomical instrument invented by Grahun (See Oriery)

Our is Root, the root of a white flower me speaks of the the I I lorenting that tive of the south of Funors In a dised state, it is well known, on account of its communication, a grateful odor resem bling that of violets the was termerly much employed in medicine, but is now little valued except is a perfume export d' from the Mediteir me in m con siderable quantities, and miche other uses, is employed in the ir mutacture of

hm powder

Orsine one of the most calebrat d princely fundies in Italy, and which in former times, had large pessessions in Hungay In the eleventh century, it held i bulli int i ink among the Rem in nobili ty, and, in spite of the rividship of the powerful tundy of Colomic, man and ats splendor under the protection of seve rd popes who beleased to it. The found erwi-John Cyetron, where descendent Withew Rubens had three sons, who tounded three lines, of which there rem are it present only one that of Orsin Garyma, derived from N poleon Orsini, the vousiest sen of Matthew t incr Osm (descended from the Supckon) was made, in 1417, count of Griving, i city in the Neipelitan district of But His son James obt med the title of duke The eleventh deke after him, Peter Limcis, in 1667, give up the dukedem of Grayms to his brother Domineus, and, m He take, nu-1721, was chosen pope der the name of Benefict \III, until 1790, when another Orsini (Chinent XII) 96-The latter rapied tuned the triple crown the nephew of Benedict XIII, prince Beroaki Oram, to the dignity of prince of the papal sec, after the emperor Charles VI Itad already, in 1724, made him a prince of the German empire. The seat of the family was commonly in Naples. The family has given several distinguished men to Italy, among whom Nichobas Orsini and his cousin Lorenzo obtained some reputation in the war of Venice against the league of Cambray. The former distinguished himself by taking and valiantly defending Padua, in 1500, against the emperor Maximilian 1; and the latter was the first who disciplined the Italian inflantry, so that they could stand the attacks of the formidable Swiss and Spanish troops.

ORT (German for place); appearing in geographical names, as Fredericsort.

ORTRITE; (\$\delta_\text{ophes}\$, straight) because a always occurs in straight layers, generally in feldspar. It bears a strong resemblance to gadolinite, and consists of peroxide of cerium 19.5, protoxide of iron 12.44, protoxide of manganese 3.44, yttric 3.44, silex 32.0, alumine 14.8, lime 7.84, water 5.36. It is found in the mine of Finbő, in the vicinity of Fahlun, in Sweden.

ORTHODOXY (from the Greek 300% of a. from house right, and both, opinion), used only in religious matters, signifies just notions on religious subjects. Such sects, therefore, as claim to be solely in possession of religious truth can admit no others to be orthodox. In the Roman Catholic understanding of the word, he is orthodox who believes what the church believes and teaches; what is contained in the gospel, the traditions, the decrees of the councils, and the silent agreement of the The Greek Catholics call, in church. their turn, themselves orthodox, and the Roman Catholies heterodox. In the U. States, the word is often used to designate Calvinists, as well by themselves as by people not belonging to their sect. (See Herelics, Acatholici, and Heterodox.)

ORTHOGRAPHIC PROJECTION OF THE SPHERE is that projection which is made upon a plane passing through the middle of the sphere, by an eye placed vertically at an infinite distance.

ORTHOGRAPHY; that part of grammar which teaches the nature and properties of letters, and the just method of spelling or writing words, making one of the four grammest divisions or branches of grammar descriptions.

ORTHOREDIC INSTITUTES; the name given by the Germans to establishments devoted to the cure of deformities, chiefly those of the spine, ribs and pelvis. The word is from 1666 (straight) and reduce (the

formation of a child). It is a brunch of surgery much cultivated of late, and astonishing cures have been effected by per-. severance and ingenuity. One of the most perfect of these institutes exists at present at Würzburg, Gormany, under Mr. Heine.—See his Réglement intérieur de l'Institut orthopédique dit Carolin (Würzburg, 1826), and Historical Account of the Foundation of the Orthopædic Caroline-Institute, with scientific views respecting deformities of the human body. cases subjected to treatment in that institute are, 1. the crooked neck (caput obstipum); 2. curvature of the spine towards one side (scolosis); 3. curvature of the spine backwards (kyphosis); 4. curvature of the spine forwards (lordosis); 5. deviation of the ribs and clavicles from their proper situation and connexion; 6. deformities caused by unnatural shortness of the muscles round the hips; 7. deformity from weakness of the spine; 8. unnatural motions of the upper arm in the joints : 9. club hand, and faulty extension and flexion of the hand; 10, crookedness of the upper arm, or fore-arm; 11. contraction. of the thigh towards the back; 12, contraction of one thigh towards the other: 13. faulty rotation of the thigh-bone, that the point of the foot is turned unnaturally outwards or inwards; 14. contraction of the lower leg towards the thigh; 15. knees unnaturally bent, so as to be too far from or too near to each other: 16. club-feet bent inwards (vari): 17. club-feet turned outwards (vdgi); 18. flat fcet; 19. crookedness of the thigh-bone and the other bones of the leg; 20, deformities of the lower extremities from weakness; idso complication of several of these deformities. There are many orthopædie institutions in Germany and France. That of doctor Leithoff, at Lubeck, is the oldest

in Germany.
ORTLES-SPITZE, or ORTLER; a mountain in Tyrol, on the borders of Engadina.
By some measurements its elevation is 15,430 feet, the third highest in Europe, its summit was first reached, in 1862, by.
Joseph Pichler, a hunter of Passeyr.

ORTOLAN (emberize hortelane). This bird, so celebrated in the annals of gastronomy, is a native of the southern parts of Europe, though it even visits England, Sweden, &c. It appears to be identical with the miliaria of Varro, which was sold at such enormous prices to the episcures of ancient Rome. When killed at the proper time, these birds are very fatbut they are not as much esteemed as when they are caught alive, and artificial-

ly brought to their highest degree of perfection. This is done by confining them in a chamber from which the rays of the sun are excluded, and which is lighted by lamps kept constantly burning. the dads are plentifully supplied with food of the most nutritive kind till they become mere lumps of fat. Their flesh is said to be extremely delicate, but so rich as soon to satiate the appetite. The ortobass are prepared for the table in various ways. Sometimes they are roasted in an eggshell - a method of cookery borrowed from the ancients. A great traffic was formeris carried on from the island of Cyprus in these birds. They are eaught in vast numbers in that place, and pickled in casks. each containing from three to four hundred, prepared with spice and vinegar. In some years the number of casks experiod has amounted to 460, or, upon an average, 14,000 of these highly-prized morsels. The ertolan is also reared for its vocal talents, which, however, are not of the first order. The ortolan is yellow on the throat and around the eyes; the breast and belly are red; the upper part of the body brown, varied with black,

ORTES Cosmers; the rising of the stars, as the expression is used by the aucient poets: As the calendar of the ancients was far from being exact, since the received length of the year differed from the , retual length, they found it necessary, at a very early period, to have recourse to other signs of the lanse of time. The rising of the stars was compared with the rising and setting of the sun, and certain regulations were made accordingly. The rule, fo. instance, of beginning certain agcicultural labors on the first day of the year was very inexact, since, for the above-mentioned reasons, that day hap-pened in different parts of the year. On the other hand, the rule was correct to undertake them upon the day when Siri-, us rises at sunset, since this always happens at the same time of the year. We find, therefore, in the ancient poets and historians, especially those on agriculture, vexpressions which refer to this division of time. Thus the name of ortus cosmicus is given to the rising of a star with the sun; and ortus acronyclos means the rising of a star at sunset. (See Lalande's Abrège : d'Astronomie,)

ORYILLE, James Philip d'; an eminent writer on classical literature, of French extraction, born at Amsterdam, in 1696. He studied at the university of Leydon, · and, having determined to devote himself to the belles-lettres, travelled in England, von in

Italy, France and Germany, visiting the public libraries, and forming an acquaintance with the most celebrated classical On his return to Holland, about 1730, he obtained the chair of history, rhetoric, and Greek literature, at Amsterdam, which he occupied till 1742. He died 1751. His works are Miscellanea Observation s critica nava, carried on periodically in conjunction with Burmann; an ... edition of the Greek romance of Chariton, with a commentary (1750, 4to.); and Observations on Sicily, published after the death of the author, by Burmann, under the title of Sicula (1761, 1cho).

ORYCTOGNOSY. (See Mineralogy.)

ORYCTOLOGY: the science of the-various formation of mountains; hence it is

a branch of geology. (q. v.) . Oster, a river of Wissouri, rises in the country west of the state, about longitude 97 west, and latitude 36 30 north. It flows into the state of Missouri, and joins Missouri river 133 miles above the Mississippi. It has a very winding course, is 1997 yards wide at its mouth, and is navigable for boats 600 miles. Much of the kind watered by it is very fertile. The two native tribes, the Great Osages and the Little Osages, live in separate settlements on this river, about 400 miles from its mouth. The Great Osoges consist of about 3800; the Little Osages 1700. About 150 miles south-west of these settlements are the Osages of Arkansas, near-ly 2000 in number. The united foreign missionary society have sent missionaries to the settlements in Arkansas, and in Missouri territory.

OSIGE QUANGE. (See Fustic Wood.)

Oscillation, in mechanics : vibration. or the reciprocal ascent and descent of a pendulum. - . lxis of oscillation is a right line passing through the point of suspension parallel to the horizon .-- Centre of oscillation is that point in a vibrating body in which, if all the matter of the body were collected into it, the vibrations would be . performed in the same time as before.

OSTANDER, Frederic Benjamin, one of the most distinguished German professors of midwifery, was born in 1759, at Zell, in the kingdom of Würtemberg. 1792, he was appointed professor of mid-, wifery in the university of Göttingen, and director of the lying in hospital, which was established in 1751, and had become. the first school of midwifery in Germany, Osignder remained its, director for thirty years, during which time about 3000 scholars enjoyed his instructions there. From 80 to 100 women were received there in-

'musly, and it often happened that several, lution, similar to that from which it was years passed without the occurrence of a single death. He published the history of this autoesting institution, and a description of all the remarkable cases which occurred from 1794. He died in 1822. Osiander's numerous works, on almost every branch of medicine, are enumerated in Saalfeld's History of the University of Gottingen, from 1788 (Gottingen, 1820), and in Meusel. Among these is Manual of Midwifery (in German), 1796, and Manual of Acconclument (Tubingen, 1818 -- 1821, 2 vols., in German), with a collection of drawings: On the Diseases which take place in the Period of Developement of the Female Sex (Gottingen, 1817, and continued, Tübingen, 1820 to 1822, 2 vols.).

OSIER. See Willow.)

Ostris, an Egyptian god. (See Isis, Hieroglyphics, vol. v, page 320, and Egypt, vol. iv, p. 421.)

OSHAN. (See Caliph, vol. ii, p. 407:

see also Ottoman Empire.)

OSWAZOME. If cold water, which has been digested for a few hours on slices of raw muscular fibre, with occasional pressure, be evaporated, filtered, and then treated with pure alcohol, a peculiar animal principle will be dissolved, to the exclusion of the salts. By dissipating the alcohol with a gentle heat, the osmazome is obtained. It has a brownish-yellow color, and the taste and smell of soup. Its aqueous solution affords precipitates, with infusion of mutgalls, narate of mercury, and nitrate and acetae of lead.

OSMELITE; a mineral species found mixed with datholite, in trachytic veins, near Wolfstein, on the Rhine. Hardness between fluor and apatite; specific gravity, 2.79 to 2.83; cleavage visible in one direction only; feels rather greasy. It emits, at the ordinary temperature of a room, a distinct clayey smell, whence its name, os-

melite, or smelling Mone.

Osuren; a metal discovered by Mr. Telement among platina grains, and thus denominated by its discoverer from the pungent and peculiar smell of is oxide. Exposed to a strong heat in a cavity in a piece of charcoal, it does not melt, nor is it volatile, if oxidation be carefully prevented. With copper and with gold it forms malleable alloys, which are easily dissolved in nitro-muriatic acid, and afford by distillation the oxide of osmium. The pure metal, previously heated, did not appear to be acted upon by acids. Allested in a silver cup with caustic alkali, Is combined with it, and gave a yellow so-

produced. From this solution, acids separate the oxide of osmium. Oxide of osminm becomes of a dark color with alcohol, and after some time' separates in the form of black films, leaving the alcohol without color. The same effect is produced by ether, and with greater rapidity. It parts with its oxygen to all the inetalsexcept gold and platina. Silver, kept in a solution of it some time, acquires a black color, but does not deprive it entirely of . smell. Copper, zinc, tin and phosphorus quickly produce a black or gray powder, and deprive the solution of smell and of the property of turning galls blue. This black powder, which consists of the metallic osmium, and the oxide of the metal employed to precipitate it, may be dissolved in nitro-muriatic acid, and then becomes blue with the infusion of galls. If the pure oxide, dissolved in water, be shaken with mercury, it soon loses its smell, and the metal forms a perfect amalgam. By squeezing the superfluous mercury through leather, and distilling off the rest, a dark-gray or blue powder is left. which is the osmium.

OSNABRUCK; a principality of the kingdom of Hanover, formerly a bishopric in the circle of Westphalia, whose bishops, after the peace of Westphalia, were alternately Catholic and Protestant. principal rivers are the Hase and the Honte. It has 137,000 inhabitants, with a superficial area of 9100 square miles. The principal place of the same, called also in English Osnaburg, lies on the Hase, and is known in history by its having been the place for the conferences of the Protestant ambassadors in concluding the peace of Westphalia (q. v.), in 1648. The population is 10,900, engaged in the manufacture of coarse woollen cloths, leather and tobacco. There are also several linen bleach-fields; and the coarse lineus called Osnaburgs are brought in from the surrounding country to be measured and stamped. Lat. 52° 16' N.; lon. 80 1' E.: 70 miles W. of Hanover (Sec. Hanover.)

OSPREY; the fish-hawk. (See: Eagle.) Ossian (Oisian), the most celebrated of the bards, flourished about 300 A. D. He was the sou of Fingal (q. v.), a Caledonian, or, according to the Irish writers, an Irish hero. Ossian is soid, like some of the celebrated poets of antiquity, to have been blind, and to have soothed his anguish for the loss of his favorite son, Oscar, by the composition of his songs, His name has derived its celebrity from 1.00

the publications of Macpherson (q. v.) them. In 1 In 1760 Machineses which the publications of Machineses with the publication (q. v.) In 1760, Macpherson published a volume, entitled Remains of Ancient Poetry, collected in the Highlands of Scotland, and ranslated from the original Gaelic or Erse Largange. He was then sent to the Highlands to make further collections, and, in 1762, published the Fingal, with sixteen smaller poems, and, in 1768, Temora, with five smaller ones. The best edition of these Ossianic poems is that of Campbell, with illustrations (1822). Macpherson declared the poems to be translations from Gaelie odes of the bard Ossian, which had been preserved, partly by oral tradition, and were partly found in manuscripts. The titles are taken from the name of the here whose deeds they celebrate, or from that of the place where the events occur. Their genuineness was called in question by the reviewers on their first appearance, by Johnson (1775), Shaw (1761), Waller, and more particularly by Laing, in his History of Scotland, and in a separate dissertation on the subject. The other side of the amestion was taken by Blair, Sinchar, Home, Arthur Young, &c., who proved that originals of Macpherson's English translations were to be found in the Highlands, and were attributed to Ossian; but there was nothing to show whether it was the same Ossau who flourished in the fourth century. The principal arguments against their genuineness were derived from the state of manners aescribed in them being inconsistent with the wild and barbarous condition of the country; the impossibility of their having been preserved for fourteen centuries by oral communication only, and of their being intelligible, if preserved, to persons acquainted only with the language of their own times. Yet it could not be denied that the poems ascribed to Ossian contained no allusions to Christianity, and described a mode of lite natural to the Highlanders; that they were entirely different from the old English and Scotch ballads; and that it was difficult to suppose that Macpherson could have composed so much poetry in so short a time, and still more improbable that he could have composed it in Gaelic, a language with which he was not very familiar. (He actually published in Gaelic the seventh song of Temora.) It was also suggested that had he been the real author, he would not have been ready to transfer the honor to another, . and that their long preservation might be accounted for by the attachment of the Highlanders to their heroic period, and by the existence of bardie schools among Salar Salar

In 1797, the Highland society of Edinburgh appointed a committee to examine the subject the Report of which, . by Mackenzie (q. v.) was published in 1805. In this it appeared that traditions of the Ossianic heroes had been preserved in Ireland, and that several manuscripts existed containing ancient ballads. These traditions and ballads, which had formed the subjects of the bardic songs as late as the first part of the eighteenth century, . formed, according to the Report, the groundwork of Macpherson's Ossianic poems; he had translated them freely, connected them arbitrarily, and made.: such changes, additions and improvements as he had thought proper. The longer epic poems, l'ingal and Temora, were by no means to be conceived to have existed in their present form: the opic dress is altogether foreign from the originals, which were short poetical descriptions. The general subject of this whole series of ballads is the deliverance of Erin from the haughty Swaran, king of Lochlin, by Fingal. Whatever was the origin of the poems, they were admired by all the nations of Europe, and translated into all the European languages. In 1807, the Highland society published the Guelle originals of Fourieen Ossianic poems, with a feeral Larin translation by Mackirlane (Dana Oisien: new ed. Edinburgh, 1818, 3 vols.). "The last incident in their story," says Mackintosh, " is perhaps the most remarkable. In an Italian version (by Cesaretti), which softened their defects, and rendered their characteristic qualities famt, they formed almost the whole poetical library of Napoleon, a man who must be owned to be, by the transcendent vigor of his powers, entitled to a place in the first class of human minds. No other imposture in literary history approaches them in the splendor of their course." --The subjects of the Ossianic poems are partly narrative and partly lyric-heroic deeds of war, vivid pictures of Highland nature, the praise of better times past, complaints of wounded feeling, &c. Their form is quite peculiar; the language concise and abrupt; in the original it is metrical. They please by their successful defineation of the passions, picturesque expressions, hold, but lovely images and comparisons, their deep pathos, their tenother hand, it has been objected to them, that they are defective in the discrimination of character, and in variety of itsagery., Ossuna, don Pedro y Tellez Giron, duke

of, celebrated for his government of Naples and Sicily, was born at Valladolid, in 1579. His grandfather, vicercy of Naples, took him, when two years old, to Italy. At the age of ten, he returned to Spain, and was educated at Balamanea. His satirical wit made him many enemies at the court of Platip II, and he was banished from the capital on account of a disrespectful answer to the king. After the death of Philip, he returned, attached himself to the duke of Lerma, the favorite minister of Philip III, and took the title of duke of Ossuia. The courtiers, however, again found means to procure his banishment. and he served six campaigns in Flanders. In this interval he visited England and France, and was received with many marks of favor by Henry IV and James I, the former of whom was deligited by his wit, and the latter with his learned conversation in Latin. In 1607, the duke of Lerma procured permission for him to return, and Ossuña exercised his influence in effecting the acknowledgment of the independence of the United Netherlands by the tresty of 1609. His opposition to the expulsion of the Moors (q. v.) from Spain, exposed him to the persecutions of the inquisition, which, however, was unable to fix any charge upon him. The viceroyalty of Sicily was soon after conferred on him, and he remained there till 1615. The restoration of public security, the repression of the violences of the nobles, the encouragement of commerce and agriculture, and the deliverance of the coasts from the rayages of the Turks. prove the vigor and wisdom of his administration. In 1616, he was appointed viceroy of Naples. He resisted with success the claims of Venice to the exclusive navigation of the Adriatic. Philip, at the instigation of the papal nuncio, having formed the design of introducing the inquisition into Naples, Ossaña refused to obey his orders to this effect, and his onemies were busy in their efforts to bring him into disgrace with the court. To avoid the storm which now threatened him, he married his daughter to the son of Lerma. His opposition to the establishment of the inquisition had, however, excitedathe unimosity of the clergy, who were very powerful in Naples; and, as he foresaw that the intrigues of the court would soon or later strip him of his power, he formed the bold plan of raising bimself to the sovereignty of the country. In prosecution of this design, he sounded the dispositions of Savoy, Venice and France, in 1617, and formed connexions

with Holland and the Porte. (See Daru's Histoire de Venise.) A part of his plan became known; a capuchin denounced the viceroy in Madrid, and he was recalled in 1619, but returned in a sort of triumph. On the accession of Philip IV, however, he was arrested, and proceedings were commenced against him. They continued three years, but nothing was proved against him; and he died in the castle of Almeda, in 1624, full of witty sallies to the last.—See Letis Lafe of the Duke of Ossumu (Paris, 1700).

Osr, the German for east (q. v.), appearing of course, in a number of geo-

graphical names.

Ostvor, Adrian van, a painter of the Flemish school, was born at Lübeck, it 1610, and studied under Francis Hals, His pictures are characterized by an exact imitation of nature, and his admirable representations of subjects, which in other hands would only have been disgusting. They usually consist of the interiors of ale-houses or kitchens, with Dutch peasants smoking, quarrelling, or drinking; but he throws such expression into the heads of his characters, that their vulgarity is lost in our admiration of their truth and animation. His coloring is rich and clear, his touch spirited and free, and all his works are highly finished. .On the approach of the French troops, in 1862, to Haarlem, Ostade sold all his pictures and effects, in order to return to Lübeck; but at Austerdam be was prevailed upon to remain, and he practised his profession with great reputation until his death, in 1685.—Isaac van Ostade, his brother and scholar, was been at Lubeck, about 1612. His earliest pictures, which he painted in imitation of his brother, were greatly mferior; but he afterwards adopted a style of his own, in which he was successful; and he was often solicited by contemporary landscape painters to add his figures. to their pieces. He died young.

Ostene; a fortified and well built place in the Belgie province of West Planders, with 10,500 inhabitants, and a herbor on the North sea, into which the largest ships can enter only at flood tide; lat. 512–13 N.; lon. 22 55 E.; 66 miles west of Brussels. It communicates by canals with Bruges and Ghent on the east, and with Niemport on the west. Regular post-office packets convey the mail twice, a week from Dover to Ostend, and from Ostend to Dover. Ostend is celebrated in history for the siege (1601–1604) which it sustained against the whole Spanish power for three years. It finally capitulated on

honorable terms. (See Netherlands, and the article Belgium, in the Appendix to the concluding volume of this work.)

OSTEOLITE (from the Greek); a petrifaction of a bone. (See Geology, and Or-

genic Remains.)

OSTEOLOGY. (See Anatomy, and Bones.) OSTIA; at the mouth of the Tiber. whence Romo received her supplies of all commodities by sen, celebrated in the poem of Virgil, and the traditions which represent Æneas as having landed there. Sixtus IV and Julius II surrounded it with fortifications. It has also a bishop's palace, with a church. During summer, on account of the malaria, it has but 10 inhabitants, and in winter not above 100. The ancient Ostia, now only known by its ruins, is near the modern. Formerly, when it had 30,000 inhabitants, it formed a semicircle round the river, which makes a bend there. Ostia was never a scaport, but an unfortified anchorage ground, in which, from the time of Ancus Martius to the latest period of the republie, the Roman fleet lay moored. This made it possible for pirates to pillage the fleet in the midst of Ostia, which Cicero, , in his speech for the Manilian law, so bitterly condemns. At a later period, this anchorage became so obstructed, that, even in the time of Strabo, only light vessels could go up the stream. Just before · Ostia the Tiber divides into two branches; tae right branch, on account of its straighter direction, appears to fill up less. Claudius and Trajan therefore built a port on the right arm of the Tiber, to supply the city more safely: this is now called Porto, and its prosperity caused the decline of the once important Ostia. As early as A. D. 420, Rutilius Numantianus describes Ostia as maceessible, and Procopius (De Bello Goth, 1st vol., p. 26) speaks of it as in his time (the middle of the sixth century) entirely destroyed. With its decay it is probable the malaria increased; and the neighboring salt-works, founded by Ancus Martius, and now scarcely discoverable, aqueducts, as also an adjoining marsh, were also pernicious. The invasion of the Saraceus, who disturbed the peace of the few remaining inhabitants, caused the fortifying of the present Ostia. A celebrated picture, by Raphael, commemorates the naval battle between the Neapolitáns and the Suraceus.

OSTRACION is the name adopted by Linurens for a genus of fish, which appear as if they were invested in a coat of mail; for, instead of scales, they have regular bony compartments, forming a W 16 5 4 5 1

kind of cuirass that covers the body and head, so that all the movable parts are the tail, the fins, the mouth, and a small projection at the gills. The greatest number of their vertebrae are likewise inflexible. Their jaws are each armed with ten or a dozen conical teeth. They have but little tlesh, but their liver is large, and furnishes a great quantity of oil. This genus is not well understood by naturalists, and requires close study; all the species of it are inhabitants of warm countries, and differ exceedingly in form and size. Most .

of them are armed with spines.

OSTRACISM; a judgment of the assembly of the people in Athens, which checked the influence of powerful citizens by an exile of ten years. If any person was regarded as obnoxious, every citizen who was of this opinion wrote the name of the person to be banished on a shell (ostrakon). which he deposited in the place appointed in the forum. This place was enclosed by wooden balustrades, and had tengates. at which the ten tribes of Athens entered at the assemblies of the people. archons counted the shells deposited by the citizens, and if at least 6000 were in favor of the banishment of the accused, the banishment took effect; otherwise, he was acquitted. Persons were exiled by the estracism for ten years, and, after the expiration of this period, the exiled citizen was at liberty to return to his country, and take possession of his wealth, and all his civil privileges. To this sentence no disgrace was attached; for it was never inflicted upon criminals, but only upon those who had excited the jealousy or suspicion of their fellow-citizens, by the influence which they had gained by peculiar merit, wealth or other causes. Aristotle and Plutarch called the estracism the medicine of the state. Still it was often used by bad and envious men to accomplish their unlawful designs, and to destroy the influence of patriotic citizens.

OSTRICH (struthio). No bird is, perhaps; ; more celebrated than the ostrich, not only. from the beauty and value of its pluniage, but also from its great size and peculiar habits. It is generically distinguished by its straight and depressed bill, and the shortness of its wings, which are unfitted for flight. The African or true ostrich (S. camelus) is from seven to nine feet high from the top of its head to the ground; most of this, however, is made up by the great length of its neck. Its head is small, and both it and the neck are destitute of feathers, having only a few scattered hairs, The feathers on the body are blackish;

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those of the wings and tail are white, sometimes marked with black. The Wings are finashed with spurs. thighs are naked, and the legs hard and scaly. The ostrich inhabits the burning and sandy descris of Africa in large flocks. This bird appears to have been known from the earliest ages; it is constantly alluded to in the Old Testament, and was one of the forbidden articles of food to the Jews. Fashion has set too high a value on the feathers of the estrich to admit of his remaining undisturbed, even acthe desolate regions which he inhabit. Anciently, also, it appears that this bird was sought for to grace the table of the epicare; thus that prince of gournands, Heliogabalus, cansed the brains of 600 of them to be served up at one meal. The hunting of the ostrich is exceedingly laborious, as he is far swifter than the fleetest herse. The mode adopted by the Arabians and Moors is to pursue the bird as long as possible, when the chase is taken up by another on a fresh horse, till the bird is worn down. This is the more readily done, as the ostrich, instead of pursaing a straight course, runs in a circuitous direction. It is also said that they are taken by a hunter covering himself with one of their skins, and then approaching them sufficiently near to surprise them. They are tained, and are bred in some parts of Africa. The female lays from ten to twelve eggs in a hole in the sand ; and, although she does not incubate them continually, no bird has a stronger affection for its offspring, or a watches its nest with more assiduity. : Contrary to the general opinion, she always broods over her eggs at night, only leaving them during the hottest part of the day. If the eggs be touched by any one during the absence of the birds, they immediately discover it, on their return, by the smell, and not only desist from laying any more in that place, but likewise destroy all that may have been deposited. Barrow states that in the interior of the eggs there are frequently found small, oval-shaped pebbles, of a pale yellow color, and exceedingly hard. The eggs are said to be a great delicacy, and prepared for the table in various ways. The ostrich, in a tame state, swallows, with the greatest voracity, rags, leather, iron or stone. Doctor Shaw says, "I saw one at Oran that swallowed, without any sceming uneasiness or inconvenience, several leaden bullets, as they were thrown upon the floor, scorching hot from the mould."—The American ostrich (S. rhea) is very closely allied to the preceding, and

may be considered its representative in the western continent. This bird inhabits various parts of South America to the southward of the equator, but is principally found on the great plains in Buckey Avres and the adjoining states, the is not as large as the African ostrich, and is of a . uniform gray color, except on the back, which has a brown tint. The back and rump are furnished with long feathers. which are not as rich and full as those of the true ostrich, and are but little esteemed as articles of dress or ornament, being principally used for brushes for driving away flies, or cleaning articles from dust. The bird possesses the same remarkable. speed as the former species, and its run- , ning is accompanied with a singular menon of its wings. It raises one, which it holds for some time stretched out, then depresses it, and creets the other. It is taken by chasing it on horseback, and catching it with the lasso, or by rogans of balls connected by a strip of hide, and thrown in such a way as to entangle its legs. It discovers the same indiscriminate voracity as the ostrich, and the size of the articles it can swallow is astonishing. one that was in Philadelphia a short time since could swallow a whole onion, the diameter of which was apparently larger than that of its own neck. The discussion produced by this root, as it descended to the stomach, could be readily traced The natural food of this bird is fruit, grain, and, in fact, most vegetable sub-stances. The individual just alluded to fed eagerly ouggrass or clover.

Ostron; an affix of several Russian, geographical names, signifying strong.

OSTROGERAS. (See Gollis.)

Ostrodenka: a village in Poland, 34 leagues north-east from Plock, with 1850 inhabitants. This place is celebrated for a battle between the French and the Russians, Feb. 25, 1806, and a battle between the Poles, under general Skrzynecki, and the Russians, under marshal Diebitsch, May 26, 1831. This engagement was very sanguinary, and the Poles were at length obliged to retreat.

OSTROV (Russian) signifies island for instance, Lissir-Ostroya (Fox Islands

OSTRYA. (See Iron-Wood.)

OSWEGATCHIE; a township of St. Law-rence county, New York, on the St. Law-rence river. The principal village is the post-borough Ogdensburgh, which stands on the St. Lawrence, directly north of the mouth of Oswegatable river. It is the capital of the county, and contains the county buildings. It is also a port of en-

try and delivery, and has a custom-house. There are several vossels owned here, which are employed in the trade of lake Omário. The river at this place has little current, has a good depth of water, and affords a good harbon. Ogdensburgh has considerable commerce and manufactures. Its distance from Albany is 200 miles; and it stands opposite Prescott and Fort Wellington, in Canada. About five miles south of Ogdensburgh, where the roads cross the Oswegachie, there is a hamler groving up, called Fordsville. The whele population of Oswegatchie is 3831.

OSYMANDIAS; one of the Pharachs of ancient Egypt, who flourished about 1500 years B. C. He erected the gigantic works of Thebes, built the Menmonium in the city of the hundred gates, and, becording to Diodorus, inscribed on his colossus, "I am Osynamdyas, king of kings: if any man will know my greatness and my resting-place, let him destroy one of my works." Heeren (Historical Meeren (Historical Works, xiv, 241 seq., and 317 seq.) conpectures that Osymandyas was a name of the great Rameses, or Sesostris, as all the works of art in the Menmonium relate to traditions of the exploits of this great · sovereign. (Sec. Mehmon.) According to some writers, Osymandy as belonged to the' lifteenth dynasty, and lived about 2300 years B. C. According to the explana-, ion by the Cay, St. Quentin, member of the Tura scademy, of the hicroglyphics on the pedestal of a colossus made of hard red sand-stone, which is in the museum of Egyptian antiquities at Turin (taken by Drovetti, in 1818, from the ruins of the nucleut temple of Carnae), that statue, the largest, and perhaps, also, one of the most beautiful which have been brought uninjured from the banks of the Nile to the continent of Europe, is the statue of king Osymandyas.

OTABETE. (See Society Islands.)

OTERID, or OTERIED: the author of one of the curliest specimens of composition in the German language. He was a native of Suabia, and lived in the middle of the ninth century. After having become a monk of the abbey of Weissenburg, in Alsace, he studied under Rabamus Maurus, abbot of Fulda. He then returned to his monastery, where he opened a school of liperature, and wrote a variety of works in prose and verse. The most important of these is a rhymed version, or paraphrase, of the gospels, in old High Germany, still exant, in which there are some passages of lyrical poetry. Scherz published it, with a Latin translation, in his

edition of Schilter's Thesaurus Anliquitatum Tevtonicarum.

Orman. (See Caliph, vol. fi, p. 407., Orno, Marcus Salvius, successor of the emperor Galba, was descended from a consular family, and passed his youth in luxury and debanch, being the confident of Nero. This emperor appointed hits proconsul in Laistania, that he might remove an obstacle to the gratification of his passion for Poppara Sabina, the wife of Otho, to whose beamy her husband, himself had first called has attention-Otho held his place with honor for ten years. He was the first to declare for Galba, when he rebelled against Nero, and accompanied him to Rome, where he was made consul immediately after Galba ascended the throne, $\Lambda, D, 67$. As Galba did not adopt him for his successor, and as he was greatly distressed, having squandered away all his fortune, he determined to effect the fall of the emperor He succeeded, with the assistance of the pretorian bands and the other troops. Galba was nurdered, and Otho proclaimed coperor. But the legions in Germany proclaimed Vitellius. In vain did Otho offer immense sums to gain them to his side. Vitelius refused the offer to reign as joint emperor, and led his army over the Alps. Otho, for whom most of the provinces had declared, seut against these veteran troops an army of newly-levied soldiers, but commanded by able generals, who defeated, in three battles, the divided army of Vitelfas. Elated by his success, and becoming improdent, Otho determined on a decisive battle against the now united troops of his adversary, and was beaten. Upon receiving information of his misfortune, he resolved, by a voluntary death, to end the civil war, and pierced himself with his dagger, after reigning three months and three days. Notwithstanding his luxurious habits, be had given proofs of a daring and resolute spirit.

Otho I, emperor of Germany, son of Henry I, was born in 912. His haughtiness and selfish spirit excited the enuity of his brothers, and even his mother was so much disgusted at them, as to employ all her influonce against, him in favor of her second son, Henry. Otho's tirnness, however, prevailed, and he was crowned king of Germany, at Aix-la-Chapelle, in 936. Wenceslaus, on whom he had conferred the duchy of Bohemia, having been murdered by his brother, the latter, on Otho's refusal to acknowledge his claim to the succession, determined to

make Beheinin independent of Germany, "John Zimisces, gave the Greek princess and was not reduced until 950, after a fourteen years' war. Otho also brought to a successful issue the struggles with the dukes of Bayarin and Franconia, and invested his son Ludolf (949) with the duchy of Snable, and his brother Henry with that of Bayaria. Conrad, count of Worms, married Otho's daughter, and received Lorraine," Otho likewise gained reputation in his dealings with foreign states. The Danes. who had invaded Germany, were driven back beyond the Flider, the Danish king was obliged to embrace Christanity, and acknowledge himself a vassal of the empire. Louis (Outremer) called in his aid against the great vassals under the powerful Hugh the Great. Otho reduced the robels to terms, and confirmed the authority of the king. The Italians next required his assistance to deliver them from the oppressions of Berengarius II. Otho defeated the usurper, married the widow of the last king, and was crowned king of Loinbardy, at Pavia, in 951. This marriage not only engaged him in ambitious aitempts for the possession of Italy, but attracted many foreigners to his court, and involved bing in family dissensions. His son Ludolt, and lus son-in-law Conrad, duke of Lorraine, revolted, but were worsted, and deprived of their duchies, in 954, which were placed under Bruno, archbishop of Cologne, brother of Otho. Hardly were these transactions completed. whan the Hungarians broke into Germany, but were defeated by Otho on the Lochfeld. near Augsburg (Aug. 10, 955), with such slaughter, that they never ventured to renew their invasions. Otho next turned his arms against Berengarius, who had revolted. He was crowned king of Italy by the archbishop of Milan (961), and, soon after (1962), emperor, by the pope John XII. The pope took the oath of allegiance to him, and the clergy promised that, for the future, the choice of pope should always be made in the presence of an imperial commissioner. John soon repented of having given himself a master, and flew to arms while the emperor was yet in Pavia. The latter hastened to Rome, deposed that pontiff, and placed Leo VIII in the papal chair. No sooner was Otho returned to Germany, than the A Romans restored John, and reversed the \measures of the emperor, who again appeared in Rome, and punished his enemies. The Byzantine court refused to acknowledge Otho's claim to the imperial fi dignity; but he defeated the Greek forces is in Lower Italy, and the Eastern emperor,

Theophania to his son in marriage. Otho died in 973, leaving the reputation of great courage and the strictest integrity. The clergy in Germany, were indebted to him for their elevation, which he encouraged to counterbalance the power of the

temporal vassals.

Orno II, youngest son of Otho I and r the fair Adelaide, was born in 955. His elder brothers had all died before their father, who caused him to be crowned king of Rome-the first instance of the kind in German history. He inherited, from his father a hasty and unsteady temper, which, while it led him to form great projects, also pushed him forward too impatiently to their execution. Adelaide at first held the reins of government. Otho, disgusted at his state of dependence, left the court, and a civil war broke out, at the head of which was his consin Henry, the young duke of Bayaria. Otho com-pletely humbled him, and granted the duchy to his nephew Otho of Suabia (978), who thus became the possessor of two great fiets. He afterwards became involved in a war with Lothsire, king of France, for Lorraine. Lothaire attacked him in Acx-la-Chapelle, in 978, and Otho was obliged to retreat, but, having collected his forces, drove back Lothaire, laid . waste Champagne, and advanced towards Paris, the suburbs of which he burned. , By the terms of the peace which was concluded in 980, Lorraine was left in its former relations to the empire. Otho . next attempted to drive the Greeks from Italy; but they called in the Saracens to their aid, from Sicily (981), and Otho suffered a total defeat at Basontelle, in Calsbria. He himself escap donly by leaping into the sea, where he was picked up by a Greek ship that was sailing by. From this he afterwards made his escape by artifice; but he died soon after, at Rome, in 983. His son Otho III, who succeeded him, was born in 980, and died in 1002. With him the male line of the imperial Saxon house became extitlet.

Orrs, James, a distinguished American patriot, was born Feb. 5, 1724-5, at Great Marshes, in what is now called West Barnstable (Mass.). His family was one of the most respectable in the colony, and of English origin. In June, 1739, he entered Cambridge college. The first two years of his collegiate course are said to !! have been given more to amusement than. to study, his natural disposition being viwas distinguished for his application and

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proficiency. After finishing his course at the university, he devoted eighteen months to the pursuit of various branches of literature, and then entered upon the study of the law, in 1745, in the office of Mr. Gridley. Under that entment lawyer he employed his legal novitiate; and then went to Plymouth, where he was first admitted to the har. The two years, however, of his residence in that town, were more occupied in study than in practice, so that, when he removed to Boston, in 1750, he was well qualified to assume a high rank in his profession, This he quickly did: his practice became very extensive. On one occasion, he went, in the middle of winter, to Halif.x, in consequence of urgent solicitation, to deriend three men accused of piracy, and procured their acquittal. Although his professional engagements were so numerous, he cultivated his taste for literature, and, in 1760, published a treatise, entitled the Rodiments of Latin Prosody, with a Disserta-tion on Letters and the Principles of Harmony, in poetic and prosaic Composition, collected from the best Writers. He also composed a similar work on Greek prosody, which remained in manuscript, and perished with all his papers. It was never printed, as he said, because "there were no Greek types in the country, or, if there were, no printer knew how to set them." In 1755, he married Miss Rath Cunninghar the daughter of a respectable merchant, who brought him a dowry at that time considered very large. Amid all the emborrassments which his affairs subsequently experienced, in consequence of his entire devotion to the concerns of the public, he sacredly preserved the fortune which he received with his wife, to whom il returned after his death. The public career of Mr. Otis dates from the period when he made his famous speech against the "writs of assistance," for which an application had been made, by the officers of the customs, to the superior court of Massachusetts, in pursuance of an order in council, sent from England, to enable them to carry into effect the acts of parliament regulating the trade of the colonies. When that order arrived. One was advocate-general, and was, consequently, requested to lend his professional assistance in the matter; but, deeming the writs to be illegal and tyrunnical, he refused, and resigned his station. He was then applied to, to argue against the writs, which ' he immediately undertook to do, in conjunction with Mr. Thacher, and in opposition to his former preceptor, Mr. Gridley,

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the attorney-general. Of the discourse which he pronounced, president Adams'. the elder says, "Otis was a flame of fire: with a promptitude of classical allusions, a depth of research, a rapid summary of historical events and dates, a profusion of legal authorities, a prophetic glance of his eyes into futurity, and a rapid torrent of impetuous eloquence, he hurried away all before him. American independence was then and there born. Every man, of an immense crowded audience, appeared to me to go away as I did, ready to take arms against writs of assistance," . The court adjourned for consideration, and, at the close of the term, the chief-justice, Hutchinson, delivered the opinion; "The court has considered the subject of write of assistance, and can see no formidation for such a writ; but, as the practice in England is not known, it has been thought best to continue the question to the next term, that, in the mean time, opportunity nay be given to know the result." When the next term came, however, nothing was said about the writs; and though it was generally understood that they were clandestinely granted by the court, and that the custom-house officers had them In their pockets, yet it is said that they were never produced or executed. Otis had now fully committed himself against the designs of the British ministry, and thenceforward bent all his energies to maintain the freedom of his country. A. the next election of members of the legislature, in May, 1761, he was chosen, almost unanimously, a representative frequ-Beston, and soon became the leader, a. the house, of the popular party. For the detail of his course, during the period in which he was a representative, we must refer our readers to the biography of hin. by Mr. Tudor. In 1765, Mr. Otis was chosen, by the Massachusetts legislature, one of the members of a committee appointed to meet the committees of the legislatures of other colonies at New York, in consequence of the passage of the stamp-act by parliament. They not in convention October 19, in the same year, and named three committees to prepare addresses to the king, lords and commons. On the last Mr. Otis was placed. In this convention, Mr. Otis made the acquaintance of many distinguished men, from different colonies, and subsequently maintained, with several of them, a friendship and correspondence. In May, 1767, after the repeal of the stamp-act, Mr. Otis was elected speaker of the house of representatives; but he was negatived by the gov-

ernon who entermined a peculiar animosity towards him, from his indefatigable endeavors to defeat every plan of encroachment. In the summer of 1769, thevehement temper of Mr. Otis was so much wrought upon by the calimnies which he discovered that the commissioners of the customs in Boston had transmitted to England concerning him, by which, indeed, they sought to have him tried for treason, that he inserted an advertisement in the Boston Gazette, denouncing them in severe terms. The next evening he happened to go to the British coffee-house, where one of the commissioners, a Mr. Robinson, was sitting with a number of officers of the army, navy and revenue. As soon as he entered, an altercation arbse. which was quickly terminated by a blow from Robinson's cane. Otis immediately. returned it with a weapon of the same kind, when the lights were extragaished, and he was obliged to defend himself, single-handed, against numbers. After some time, the combatants were separated. Robinson retreated by a back passage, and Otis was led home, wounded and bleeding. He received a deep cut on his head; and to this has been partly attributed the derangement under which he afterwards iabored. Soon after this transaction, be instituted an action against Robinson, and obtained an award of £2000 sterling damages, which, however, he gave up on receiving a written apology, in which the defendant acknowledged his fault and begged his pardon. In 1770, he retired into the country on account of his health. At the election in 1771, he was again chosen a representative; but this was the last year that he took a part in public concerns, except occasionally to appear at a town-meeting. He withdrew also, almost entirely, from the practice of his profession. His mind became seriously affected, and continued so, with some fucid intervals, until his death. Sometimes he was in a frenzied state; at others, he exhibited - rather the eccentricity of a humorist than, absolute derangement. The two last . years of his life were passed at Andover. After he had been there for some time, he was, supposed to be completely restored, and returned to Boston. He resumed his professional engagements, and pleaded a cause in the court of common pleas, in which he displayed considerable power, but less than was his wont. The interval of reason was not, however, of long duration, and he was induced to go back to Andover. Six weeks after his return, he was killed by a stroke of lightning, in the

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sixtioth year of his age, May 23, 1783. The chief defect of Mr. Otis's character was his irascibility. His merits are well summed up in the following extract from the work of Mr. Tudor, to which we have before alluded :-- "In fine, he was a man of powerful genius and ardent temper, with wit and humor that never failed; as an orator, he was bold, argumentative. impetuous and companding, with an eloquence that made his own excitement irresistibly contagious; as a lawyer, his knowledge and ability placed him at the head of his profession; as a scholar, he was rich in acquisition, and governed by a classic taste; as a statesman and civilian, he was sound and just in his views; as a patriot, he resisted all allurements that might weaken the cause of that country to which he devoted his life, and for which he sacrificed it." It is greatly to be regretted that, during his derangement, he destroyed all his papers; sufficient evidence, however, of his power as a writer, remains in the various state papers of which he was the author whilst a meniber of the legislature, though they were subjected to the revising pen of Samuel Adams, whose patient temper permitted him to undergo the labor of correcting and polishing, which the arder of the other disdained.

OTRANTO, DUKE OF. (See Appendix,

end of this volume.)

OTTAR OF ROSES; an aromatic oil, obtained from the flowers of the rose, but in such small quantities that half an ounce can hardly be procured from a hundred: pounds of the petals. This oil is solid and white at the common temperature of the atmosphere, but, on the application of heat, becomes fluid, and assumes a yellow color. If is brought in considerable quantities from Turkey, and is sold at the extravagant price of from fifteen to twenty dollars an onnce. That from the East Indies, where it is said to be chiefly manufactured, when genuine, has been sold at a much more exorbitant price. It is frequently adulterated with oil of sandal wood; but the fraud is easily detected by those who are accustomed to its scent, and also by the fluidity. The true otter of roses is, undoubtedly, the most elegant perfume known.

perfume known.

OTTER (ludra, Storr). This animal somewhat resembles the weasels, with which it was classed by Linnaus, but differ from them by hiving almost constantly in the water, on which it almost solely depends for subsistence. It is distinguished by having eighteen teeth in each jaw, of

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which twelve are false molars. The feet very fine, and sells at very high prices in are palmuted, and the tail flattened horizontally. They are excellent swimmers. and feed almost entirely on fish. The common otter (L. communis) inhabits all parts of Europe, dwelling on the banks of rivers, in burrows, forming the entrance of its hole under water, and working upwards, making a small orifice for the admission of air in the midst of some thick bush. It is about two feet in length to the insertion of the tail, which is sixteen inches long. It is brown above and whitish around the lips, on the cheeks and beneath. The ouer can be dome-ticated, though, from its ferecious disposition, this is a task of much difficulty. When properly trained, they become very useful, one of these animals being able to supply a large family with fish. When the otter, in its wild state, has taken a fish, it carries it on shore, and devours the head and upper parts, rejecting the remainder. It is destructive, killing more than it can eat. The female produces four or five young in the spring of the year. It fights very obstinately when hunted, often inflicting severe wounds on the dogs. Its flesh is so fishy that the Romish church permitted the use of it on maigre days.—American otter (L. brasiliensis). This species mbabis the whole American continent, but is rare in the Atlantic coast of the U. States; in Canada, however, they are very numerous, 17,300 skins having been sent to England in one year, by the Hud-son's bay company. Its habits are the same as that of the European species; both have a habit peculiar to these animals: this is shding, or climbing to the top of a ridge of snow in winter, or a sloping moist bank in summer, where, lying on the belly, with the fore legs bent backwards, they give themselves an impulse with their hind legs, that enables them to glide swittly down the eminence. This sport they continue for a long time. The American ofter is about five feet in length, including the tail, which is eighteen inches. The color of the whole body; except the chin and throat, which are a dusky white, is a glossy brown. The fur is much esteemed, and is very dense and face. The common mode of taking them is by sinking a steel trap pear the mouth of their burrow.—Sea ot-ter (L. lutris). This species is much larger than the two last, being about the size of a large mastiff, and weighing from a yet refrained from adopting European seventy to eighty pounds. Its color, when in full season, is perfectly black; at other times of a dark brown. The fur is

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China, to which the skins are usually taken. It is exclusively found between the 49th and 60th degrees north latitude, on the north-western coasts of North America, and the shores of Kanuschatka and the adjoining islands. It is always seen on the coast or in the immediate vicinity of salt water. It feeds on almost all kinds of fish and crustaceous animals. It runs very swiftly, and swims with extrome celerity, either on its back, sides, or sometimes as if unright in the water. It is caught by placing a net among the sea-word, or by chosing it in boats. The tlesh of the young is said to be very tender. resembling lamb in flavor. The female brings forth but one at a birth, and is extremely careful and sedulous in her attention to her offspring, playing with it and fondling it in various ways, and never relinguishing it as long as she can defend it. The young continues with the dam till it is old enough to seek a mate, to whom it continues constant.

OTTOMAN EMPIRE, TURKISH EMPIRE, OTTOMAN OF SUBLIME PORTE. finest countries of the old world-Thrace, Greece, Asia Minor, Colchis, Armenia. Mesopotamia, Syria and Egypt, together with the islands of the Archipelago, and spicy Arabia, whose commerce connects Asia and Africa with Europe, and unites the East with the West -have been ruled for five hundred years by the Turks, or Ottomans, a mixed people, composed of Tartars, robbers, slaves, and kidnapped Christian children. They are the only barbarians who have reduced civilized nations to their yoke without mingling with them, without adopting their language, their religion, their sciences, their arts and their manners. This nation, originally a horde of robbers, become powerful by conquest, have remained strangers in the midst of Europe, and for four centraies have profuned with Asiatic despotism the classic soil of Athens, Sparta, Corinth and Thebes, upon which, 2500 years ago, was . maintained the independency of Europe, where flourished civil freedom and the refinement of polished life. We can here but briefly relate how it happened that a band of robbers from the steppes of Northern Asia should have pitched their camps in the country of Homer, of Solon, and of Pericles; and how this strong-hold of despotism, erected by Asia in Europe, has policy. It is only since the middle of the sixth century that history mentions the name of Turks. This tribe of Soythian Tur-

in the steppes of Northern Asia, on the away slaves and prisoners, he plufidered contines of China and Persia, now inlight the surrounding country, and took several, fited by the Kirghises, Bucharians, Usbecs, provinces of Asia Minor from the Castern and Turcomans. They carried on war empire of the Romans. After the death with the Sassanides and Byzantine enperors, sometimes in alliance with one, sometimes with the other. About the middle of the eighth century, the eastern territories of the Turks became subject to China, and the western to Persia, which the Saraceus had conquered. They now embraced Mohammedanism, and the caligh of Bagdad soon formed of them his body-goard. These military slaves sucressively sampled to the Sameens generals, to the caliphs emirs at Omrah (first ministers, like the Frankish maires du patais), and finally sovereign rulers. Thus the Turkish families of the Tulunides and Akshidides reigned in Palostine, Syria and Egypt, during the ninth and tenth centuries, and that of the Gasnevides in Persia and India from the end of the tenth to the and of the twelfth century. At the same time, a Turkish tribe in Turkestan-the ancient seat of the Scythian Massagete, now that of the Tartars, upon the Jaxartes (Sir) and Oxus (Jihon), between lake Aral and the Caspian-threw off the Chinese voke, and, under the name of Seljooks (from their leader), subdued, in the eleventhecentury, all Western Asia, where the warlike Togrid Beg, the grandson of Seljook, Alo Arslan and Malek Shah. tounded a powerful empire, with which . the crusaders contended for the possesesion of Palestine. In 1100, this was di-, vided into three paris-Persia, Media, Chorasan, and the country beyond the Oxus and there arose, during the twelfth and thirteenth centuries, the Mongols, a race differing entirely from the Tartars, to whom the Turks belong, in language and on manners. In connexion with other hordes, they destroyed the power of the Seljooks in Asia Minor; and several less nowerful Mongol communities arose. But the leaders (omirs) of the Seljooks and Turcomans, who had been driven ... from their settlements by the Mongols, Wiscon sallied forth from the valleys of un nousit Tairus, and divided Asia Minor promong themselves. One of these emirs cauras Osman (i. e. bone-breaker), of the race whic the Oguzian Turcomans. With his but lede of some hundred Turtar families than the padishahs of the eighteenth; of rean the Caucusus, he forced (1230) the tion, uses of Olympus, where about 800 his successors resolved to reduce feeble

turs was then settled on the banks of the the protection of the Seljook sultan of Irtisch, at the root of the Almi mountains, Iconium. Reinforced by robbers, rouof his protector, in the year 1300.(700 of the Hegira), he proclaimed himself suhan. He died in 1326. Thus g bold and successful captain of a band of robbers, 'un-obstructed by the weak and divided byzantines, founded upon the ruins of the Saracen, Schook and Mongol power the empire of the Osman or Ottoman Turks in Asia; and, after him, the courage, poliey and enterprise of eight great princes. whom the dignity of caliph placed in possession of the standard of the prophet, and who were animated by religious fanaticism and a passion for military glory, raised it to the rankeof the first military power in Europe (1300 ±1560). The first of them was Orchan, son of Osman. In the year 1328, he fixed his residence in Bursa, capital of Bithynia, which he had conquered shortly before his father's death. -- Concerning this bloody cradle of the Ottenan power, and the monuments of Osman and his successors to Amurath II, which are to be found there, see Von Hammer's Journey from Constantinople to Brussa (Bursa), and to the Olympus (Pest, 1818).---He organized a valiant infantry, which he kept in constant pay, formed, in part, of " Christian slaves brought up in the Mohammedan faith and the practice of arms. He subdued alk Asia Minor to the Hellespout, and took the name of Padishuh. The gate of his palace, of which the proud rains are still to be seen, was called the Porte. He became son-in-law to the Greek comeror Cantacuzonus. This circumstaice, and arralliance with the Gen- . oese, who, from rivalry with the coinmerce of the Venetians, so powerful in the Levant, alternately couried the enperors of Constantinople and the power ful sultan of the Asiatic coast, and lente their ships to the Turks for transportation, made known to Orchan and his successors the weakness of the Lastern empire. and the divisions of the Western, where religious schisms and the feudal system had destroyed all civil order, and where there was no authority or policy to hold. together the whole. Asia no longer fearand nineteenth centuries, Orchan and Ando comen amilies still remain, and pitch- and divided Europe under the law of the was shis camp in the plain of bithynia, under prophet. Split into numerous govern ments, it invited them, as Asia Minor had and Poland, from his oath, and the Chrisformerly done, to victory and plunder. Orchan's son, the brave Soliman, first invaded Europe in 1355. He fortified Gal-bpoli and Sestos, and thereby held possession of the straits which separate the two continents. The Ottoman armies now epread at the same time over Europe and Asia. In 1360, Orchan's second son and successor, Amurath I, took Adrianople, which became the seat of the empire in Europe, and conquered Macedonia. Albania and Servia with his janizaries (q. v.). composed of the children of Christians educated in the Mohammedan faith, together with the Timeriots and Zaims. who, as vassals, were obliged to perform cavalry service. While yet clated with his victory upon the field of Caschau, the Servian Milosch Kobilowitsch, who had fought in vain for the freedom of his country, and lay severely wounded upon the ground, cailed birn towards him, and, collecting his strength, plunged his dagger into his heart (1389). After him, the ferocious Bajazet, surnamed the Lightning, invaded Thessaly, and advanced to Constantinople. September 28, 1396, he defeated the Western Christians under Sigismund, king of Bohomia and Hungary, at Nicopolis, in Bulgaria, and slew 10,000 Christian prisoners; built a strong eastle on the Bosphorus, and imposed a tribute upon the Greek emperor; but the arms of the Mongol Timur (see Tamerlane) called him back to Asia; and in the battle of Ancyra, in 1402, where more than a million warriors contested the empire of the world, the proud Bajazet was conquered, and taken prisoner. Timur divided the provinces between the sons of Bajazet. Finally, in 1413, the fourth son of Bajazet, the wise and just Mohammed I, seated himself upon the undivided throne of Osman. In 1415, while the fathers of the council of Constance were burning John Huss and deposing three popes, to restore peace to the church, his victorious troops reached Salzburg, and invaded Bavaria. He conquered the Venetians at Thessalonica, in 1420; and his celebrated grand-vizier Ibrahim created a Turkish navy. He was succeeded by his son, the wise and valiant Amurath II. The brave George Castriot in Epirus (Scanderbeg, i. e. prince Alexander), the heroic John Humiades, prince of Transylvania, and the fortress of Belgrade, the bulwark of the West, alone resisted him. After the conclusion of peace in 1440, he laid down the reins of government; but, the pope having absolved Ladislaus, king of Hungary VOLUM: 39

tians having penetrated to the borders of the Black sea, Amurath again girded on the sword of Osman, called down the vengeance of Heaven upon his perjured enemies, and conquered the Christians at Varna, in 1441. Ladislans and Julian, the legate of the pope, were among the slaim The great Amurath again abdicated the throne, and was again recalled to it by " danger. He humbled the pride of the janizaries, and conquered the Christians at Caschau, in 1449. The Byzantine erupire was already cut off from the West, when Mohammed II (q. v.), the son of Amurath, and his successor, at the age of twenty-six, completed the work of con-quest (1451—1481). The reading of an-cient historians had inspired him with the ambition of equalling Alexander. He soon attacked Constantinople, which was taken May 29, 1453; and the last Paleologus, Constantine XI, buried himself under the ruins of his throne. Since that time, " Stambul has been the residence of the Sublime Porte. Mohammed now built the castle of the Dardanelles (q. v.), and organized the government of the empire, taking for his model Nushirvan's organization of the Persian empire. In 1456, he subdued the Moren, and, in 1461, led the last Commenus, emperor of Trebizond, prisoner to Constantinople. Pius II called in vain upon the nations of Christendom to take up arms. Mohammed conquered the remainder of Bosnis in 1470, and Epirus in 1465, after the death of Scanderbeg. He took Negropout and Lemmos from the Venetians, Caffa from the Genoese, and, in 1473, obliged the khan of the Crim Tartars, of the family of Gengis-Khan, to do him homage. In 1180, he had already conquered Otranto, in the kingdom of Naples, when he died, in the midst of his great projects against Rome and Persia. His grandson Selim I, who had dethroned and murdered his father, drove back the Persian power to the Euphrates and the Tigris. He defeated the Mamelukes, and conquered, in 1517, Egypt, Syria and Palestine. Mecca submitted to him, and Arabia trelibled. During fifty years, the arms of the Ottomans, by sea and by land, were the terror of Europe and of Asia, especially under Soliman II the Magnificent, also called the Laugiver, who reigned between 1519 and 1566. In 1522, he took Rhodes from the knights of St. John, and, by the victory of Mohacz, in 1526, subdued half of Hungary. He exacted a tribute from Moldavia, and was successful against the Persians in.

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Asia, so as to make Bagdad, Mesopotamia and Georgia subject to him. He was already threatening to overrun Gormany, and to plant the standard of Mohammed in the West, when he was checked before the walls of Vienna (1529). But since · Hungary, out of hate against Austria, had placed its king John Zapolya under the powerful protection of the padishah, and the successful corsair Barbarossa (q. v.) was master of the Mediterranean, had conquered Northern Affica (see Barbary), and laid waste Minorea, Sicily, Apulia and . Corfu, the sultan Soliman neight have conquered Europe, had he known how to give firmness and consistency to his plans. The projects of the conqueror were ren-dered abortive by the policy of Charles V. He was resisted at sea by the Venetians, and the Genoese Andrew Doria, by the grand-master Lavalette in Malta, and by Zriny, under the walls of Zigeth. Twelve sultans, all of them brave and warlike, and most of them continually victorious, had now, during a period of two centuries and a half, raised the power of the Crescent; but the internal strength of the state was yet undeveloped. Soliman, in-, deed, by his laws, completed the organization begun by Mohammed II, and, in · 1538, united the priestly dignity of the caliphate to the Ottoman Porte; but he could not incorporate into a whole the conquered nations. He also imprisoned his successor in the seraglio-an education as little adapted to produce heroes as statesmen. From this time, the race of Osman degenerated, and the power of the Porte declined. From Soliman's death, in 1506, to our time, eighteen sultans have reigned, and among them all, there have not been Awo brave warriors, nor a single victorious These sovereigns ascended the throng from a prison, and lived in the seraglio until, as not unfrequently happened, they again exchanged the throne for a prison. Several grand-viziers, such as Kiuprili, Ibrahim, and the unfortunate Mustapha Bairactar, alone upheld the falling state, while the nation continued to sink deeper into the grossest ignorance and slavery. Pachas, more rapacious and more arbitrary than the sultan and his divan, ruled in the provinces. In its foreign relations, the Porte was the sport of European politicians, and more than once : was embroiled by the cabinet of Versailles in a war with Austria and Russia. While all Europe was tanking rapid progress in. the arts of peace and of war, the Ottoman nation and government remained inactive - and stationary. Blindly attached to their

doctrines of absolute fate, and clated by their former military glory, the Turks looked upon foreigners with contempt, as . intidels (giaours). Without any settled plan, but incited by a savage hatred and a thirst for conquest, they carried on the war with Persia, Venice, Hungary and Poland. The revolts of the junivaries and of the governors became dangerous. The suspicions of the despot were quieted with the dagger and the bow-string, and the ablest men of the divan were sacrificed to the hatred of the soldiery and of the plema. The successor to the throne commonly put to death all his brothers; and the people looked with indifference upon the murder of a hated sultan, or the deposition of a weak one. Mustapha I was twice dethroned (1618 and 1623); Osman II and Ibrahim were strangled, the former in 1622, the latter in 1648. Selim II, indeed, conquered Cyprus in 1571, but, in the same year, don John of Austria defeated the Turkish fleet at Lepanto. A century after, under Mohammed IV, in 1660, Candia was taken, after a resistance of thirteen years; and the vizier Kara Mustapha gave to the Hungarians, who had been oppressed by Austria, their general, count Tekeli, for a king, in 1682; but, the very next year, he was driven back from Vienna, which he had besieged. and, after the defeat at Mohacz, in 1687, the Ottomans lost most of the strong places in Hungary. The exasperated people threw their sultan into prison. In a short time, the grand-vizier, Kjuprili Mustapha, restored order and courage, and recalled victory to the Turkish banners; but he was slain in the battle against the Germans near Salankemen in 1691. last, the sultan Mustapha II himself took the field; but he was opposed by the hero Eugene, the conqueror at Zentha in 1697, and, on the Don, Peter the Great conquered Azoph. He was obliged, therefore, by the treaty of Carlowitz, in 1699. to renounce his claims upon Transylvania and the country between the Danube and the Theiss, to give up the Moren to the Venetians, to restore Podolia and the Ukraine to Poland, and to leave Azoph to the Russians. Thus began the fall of the Ottoman power. A revolt of the janizaries, who, abandoning their ancient rigid discipline, wished to carry on commerce, and live in houses, obliged the sultan to. abilicate. . His successor, the imbedile and .. voluptuous Achmet III, saw with indifference the troubles in Hungary, the war of the Spanish succession, and the great Northern war. (q. v.) Charles XII (q. v.) THE LOTTE BUT ON ROBBIT CONTRACT

Pultawa, finally succeeded in involving him in a war with Peter; but the grar, although surrounded with his whole army, easily obtained the peace of the Pruth, by the surrender of Azoph in 1711. In 1715, the grand-vizier attacked Vonice, and took the Morea; but Austria assisted the republic, and Eugene's victorics at Peterwardein and Relgrade (1717) obliged the Porte to give up, by the treaty of Passarowitz, in 1718, Tomeswar, Belgrade, with a part of Servia and Walachia: it still retained the Morea. Equally unsuccessful were Achinet's arms in Persia; in consequence of which an insurrection broke out, and he was thrown into prison in 1730. In 1736, the Russian general Münnich humbled the pride of the Ottomans; but Austria, the ally of Russia, was not successful, and the French ambassador in Constantinople effected the treaty of Belgrade (in 1739), by which the Porte regained Belgrade, with Servia and Walachia. After a peace of thirty years, · Mustapha III became conscious of the rising greatness of Russia, and required Catharine II to withdraw her troops from Poland; but the Victories of Romanzoff, in the war between 1768 and 1774, determined the political superiority of Russia. At the same time, a Russian fleet was victorious on the Grecian seas, and Alexis Orioff called the Greeks to freedom-an unsuccessful attempt, indeed: yet Abduf-Hamid, at the peace of Kutschuk-Kainargi, in 1774, was obliged to renounce his sovereignty over the Crimea, to yield to Russia the country between the Rog and the Unieper, with Kinburn and Azoph, and to open his sens to the Russian merchant ships. But the pride of the humbled Porte was aroused by the rapacious spirit of Russia, and the divan, in 1787, declared war against Catharine II. The war. however, was carried on during the reign of Selim III with so little success, that Russia, by the peace of Jassy (1792) retained Taurida and the country between the Bog and the Dniester, together with Otchakoff, and gained some accessions on the Caucasus. Austria, also, to which the Porte, in 1777, had ceded the Bukowina, a part of Moldavia, had declared war in favor of Russia, but was induced, by the threats of Prussia, to restore Belgrade at the peace of Sistora in 1791. this time, the internal confusions of the Turkish empire were continually increasing. Selim HI was not deficient in un-

whom he protected after his defeat at 'How could he, with his divan, change the anti-European spirit of the Turks, restrain the pretorian pride of the junivaries, change the form of government, and the system of laws consecrated by the Islam, and protected by the ulema, reform the Oriental manners of the court and the whole constitution of the state? There was no other connexion between his wide extended realms than faith in the caliphate of the padisinah, and fear of the power of the grand seignior. The former was shaken by the sect of the Wahnbees (Wechabites-not reduced till 1816), and the latter thrown off by several hold governors of the provinces. Among these peny sultans were Passwan Oglou in Widdin (Viddin), Jussuf (until 1816) in Pagdad, several pachas in Anatolia, &c., Ali (q. v.), pacha of Janina, and Ali Bey, in Egypt. (See Mohammed . Ri.) The Servians wished for a native hospodar; thence arose continual insurrections, and continual acts of tyranuy. The people continued plunged in ignorance, and sometimes committed acts of Asiatic barbarity. On the other hand, a spirit of freedom manifested itself in Greece, by impotent efforts, but in Servia (q. v.) by a vigorous resistance between 1801 and vigorous resistance between 1801 and 1814. Finally, in March, 1821, the Greek nation arose to shake off the Turkish Turkey was equally perplexed in her foreign relations. She had been mistrustful of France ever since the alliance of that country with Maria Theresa in 1756. She remained a quiet spectator of the outbreak of the revolution, and the grand-vizior had hoped that the republic would not unite with Austria. The diven, however, observed conscientiously the existing treaties, and neither in Asia nor in Europe took advantage of the favorable opportunities for restoring the ancient power of the Ottomans by a war against Persia or against Austria. At the same time, Russia stood ready upon the heights of Caucasus and at the mouths of , the Danube. Bonaparte's campaign in, Egypt finally raised the indignation of the Porte, which, Sept. 1, 1798, declared war for the first time against France. By its alliance with Russia, in December, 1798, and with England and Naples, in January, 1799, it now fell under the direction of the cabinets of Petersburg and St. James. A Russian fleet sailed through the Dardanelles, and a Turkish squadros, in cooperation with it, conquered the lonian islands. Paul I and Selim III, by a treaty . derstanding or in knowledge, but he had at Constantinople (March 21, 1800), formnot energy to effect a thorough reform, ed the republic of the Seven Islands,

which as well as Ragusa, was to be under 'traordinary courage and prudence. He the protection of the Porte. In the fol- concluded peace with Great Britain Jan. lowing year. England restored Egypt to the Porte; but the Mameluke beys and the Amnouts filled the land with turnultand bloodshed, until, on the 1st of March. Jell, the new governor, Mehemed Ali Pacha, entirely exterminated the Mamelukes by treachery. Since then, he has ruled Egypt almost independently. The union with the European powers bad, however, made Selim and some of the chiefs of the empire sensible that, if the Porte would maintain its power, it must introduce into its armies the modern tacties, and give to the divan a form more suited to the times. The Nizan Dshedid labored, therefore, to form a Turkish army on the European model, which should supersede the janizaries. But, after the peace with France, in 1801, there were in the divan two parties, a Russian and British, and a French. The superiority of Russia pressed upon the Porte in the Ionian islands and in Servia; it was therefore inclined to favor France. When, therefore, Russia, in 1806, occupied Moldavia and Walachia, the old hostility broke out anew, and, Dec. 30, 1806, the Porte, at the instigation of France, declared war agains: Russia, which was already engaged with Persia and France. The weakness of the Ottoman empire was now evident. An English fleet forced the pussage of the Dardanelles, and, Feb. 20, 1807, appeared before Constantinople; but the French general Sebastiani directed, with success, the resistance of the divan and of the enraged people. On the other hand, the Russians made rapid advances. The people murmured. Selim 111, May 20, 1807, was deposed by the mufti, and Mustapha IV was obliged to put a stop to the luted innovations. after the Turkish fleet had been entirely beaten by the Russians at Lemnos, July I, 1807, Selim's friend, Mustapha Bairaktar, the brave pacha of Ruschuk, took advantage of the terror of the capital to seize it. The unhappy Selim lost his life July 28, 1808; and Bairaktar, in the place of the deposed Mustapla IV, raised to the throne the present sultan, Mahmoud II (born in 1785). As grand-vizier of Mahmoud, he restored the new military system, and concluded a truce with Russia; but the fury of the janizaries again broke out, and destroyed him and his work, Nov. 16, 1808. Mahmond 'alone now supported the throne; for he was, since the death of Mustapha IV, the only prince of the family of Osman. He soon showed ex-, it

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5, 1809, and continued, with redoubled vigor, the war against the Russians, who already threatened the passages of the Balkan. Twice (1810 and 1811) the Russians were obliged to retreat beyond the Danube; nevertheless, their policy conquered the French party in the divan. In vain had the French emperor, in his treaty with Austria, March 14, 1812, declared that he would maintain the integrity of the Turkish territory. Notwithstanding this, before the French army had passed the Niemen, the sultan bought peace with Russia, May 28, 1812, at Bucharest, by ceding that part of Moldavia and Bessarabia, which lies beyond the Pruth, with the northern fortresses on the Dniester and at the mouths of the Danube, and the southern gates of the Caucasus on the Kur. The Servians, left to themselves, again became subjected to Turkey. They retained, however, by their treaty with the Porte in November, 1815, the administration of the government. In 1817, Mahmoud was obliged to give up the principal mouth of the Danube to Russia. But the Greek insurrection again disturbed the relations of the two powers, and has produced important changes in the situation of the Porte. (See Greece, Revolution of, and Mahmond. II.) The Porte believed that Russia secretly favored the insurrection, and therefore seized Moldavia and Walachia, and restricted its maritime commerce. Both were open violations of the peace of Bucharest. After an interchange of notes, the Russian ambassador left Constantinople. The mediation of the English and Austrian courts, together with the emperor Alexander's desire for peace, prevented the outbreak of a war; but the divan, under various pretexts, refused all satisfaction to the Russian cabinet, until, at last, the emperor Nicholas declared the Russian ultimatum, upon which the Porte, May 14, 1826, granted all the demands of the Russian court, and promised that in Moldavia and Walachia (where, in three years, it had raised 37,000,000 of plastres, which were copployed in the war against the Greeks) every thing should be res placed on its former footing, and sent commissioners to Ackerman. Here a final term was again fixed for the decision of the divan, and, Oct. 6, 1826, eighty-twoarticles of the Russian ultimatum were accepted. This treaty of Ackerman carries into effect the peace of Bucharest. The Porte surrendered to the Russians all the an this is the partial plant of the

fortresses in Asia, which it had hitherto held back, and acknowledged the privileges granted by Russia to Servia, Moldavia and Walachia. The treaty was exccuted in 1827. In the mean while, the Pose had begun its internal reform, and . it was resolved utterly to exterminate the janizaries, who had lately burnt the sub-. urb of Galata, from the 3d to the 5th of January, 1826. An army was formed upon the European system, and, in June, 1826, the body of janizaries was de-stroyed after a bloody struggle. The violence employed, in the execution of this and other measures, caused an insurrection, in which (August 31 and October 11) 6000 houses were burnt in Constantinople. Instead of military insubordination, the most rigid military despotism began, which did not spare even the alema. the same time the Porte, in June, 1827, firmly refused the offered mediation of Russia, England and France, in its war with the Greeks, and the grand seignior called all his subjects (Christians included) m arms, to fight, if necessary, against all Europe. After the full of the Acropolis (June 5, 1827), Reschid Pacha came into possession of Livadia. East and West Hellas again submitted to the Crescent. The relations of Turkey and Greece, and those arising therefrom between the former and the great powers of Europe, have been treated of in the article Greece, The war between Turkey and Russia. which began in 1828, and was terminated. by the peace of Adrianople, Sept. 14, 1820; will be described in the article Russia. It remains only to mention here, that, though the sultan seemed, for a time, civil establishment as much as possible of Western civilization, and though he seemed, for a time, successful-wore, himself, the European dress, and prohibited, throughout the empire, the calling of Christians "dogs"—yet, according to the latest accounts, he has been obliged to give up all attempts of this kind; and the late desolating fires at Constantinople prove the sentiment with which the Turkish rabble regarded the improve-ments. (For the geography of the Otto-inan empire, see *Turkey*; for the junizaties, see Jantzaries.

OTUS. '(See Aloides.)

OTUS. '(See Aloides.)

OTWAY, Thomas, an English writer of is that by Thornto iragedy, was born in 1651, at Trotting, in Sussex, his futtier being the rector of acrde (Old Land). Woolbeding, in that county. He was Oune; one of the provinces of Hindooseducated at Winchester, and was entered tan, in the northern part of the country, a commoner of Christ-church, Oxford, lying between Agra and Delhi on the

which he left without a degree, or any professional determination, went to Loudon, and made some attempts as an actor. but with little success. In 1675, he produced his first tragedy of Alcibiades. The following year appeared his Don Carlos, which proved extremely successful. His theatrical reputation introduced him to the patronage of the earl of Plym-. outh, a natural son of Charles II, who procured him a cornetcy in a regiment of cavalry, destined for Flanders, in which country he served for a short time, and then returned, pursued by his habitual poverty. He continued to write for the stage, but found it a very scanty means of subsistence. He produced, in 1677, Titus and Berenice, from Racine, and the Cheats of Scapin, from Molière, which were acted together as play and farce, and succeeded. The following year he produced his Friendship in Fashion, a comedy, which was followed, in 1680, by his tragedies of Caius Marius and the Orphan; and, in 1682, by Venice Preserved, on which last two pieces his dramatic fame is chiefly founded. His comedies were coarse and licentions, even for that day. He died in 1685, in his 34th year, at a public house on Tower Hill, where he had secreted himself from his creditors, in a state of great destitution. It is a traditionary story that, being nearly famished, he begged a shilling of a gentleman, who gave him a guinea, and that he was choked by eagerly devouring a roll, which he purchased to allay his hunger. Pope was, however, informed, that he tell a sacrifice to a fever, occasioned by his anxious pursuit of a person who had shot determined to infuse into his military and an friend of the name of Blakeston. All accounts agree that he closed his life in great penury. The unhappy fate of Otway has excited great sympathy, associated as his memory is with some of the most tender and pathetic scenes in English tragedy; but his dissoluteness of life and manners, and shanneless flattery of the great, much tended to abate this kindly feeling. As a tragic writer he stands high, and no one has touched seenes of domestic distress with more force and feeling. His language is easy and natural, and the sentiments and incidents moving. The miscellaneous poetry of Otivay is indifferent. The latest edition of his works is that by Thornton, in 3 vols., 8vo. (1812).

Oune (Dutch) signifies old; e.g., Ouden-

west, and Bahar and Nepaul on the east, with Allahabad on the south; lat. 26° 56' to 28° 41 N.; lon. 81° E. Its length is about 200 miles, and its breath about 100, with a population of 3,700,000. The Gange, the Gogra and the Goomty water the rach plain which forms this province. The climate is mild, as the Nepaul mountuns protect it from the cold winds of the north. Onde furnishes, in abundance, all the vegetable wealth of India,—rice, wheat and other grain, sugar-caues, indigo, opinun,-and is connected, by the Ganges, with the bay of Bengal. Oude is a British dependency; the nominal sovereign (styled vizier of the Mogul empire and nabob of Oude) resides at Lucknow. The rajepoots, or military caste, serve in the English army under the name of scopoys (sipulis).

Ochenarde, or Audenarde; a town of Belgium, in East Flanders, capital of a district on the Scheldt, supposed by some to have been built by the Goths, about the year 411; 12 miles S. of Ghent; 24 N. F. Lalle; population, 5084; houses, 950. It is unfortified, but well built, and has manufactures of woollens and lineus. It has sustained several sieges, but is best known in history by the memorable vietory gained over the French, on the 11th of July, 1702, by prince Faigene and the duke of Marlborough. The French loss was 15,000; that of the allies, 5000.

Ounmor, Charles Nicholas, duke of Reggio, marshal and peer of France, was born April 2, 1767, at Bar-sur-Ornain, of a respectable mercantile family. He entered the military service in his sixteenth year, was a zealous friend of the revolution, and distinguished himself in September, 1792, by the defence of the castle of Bitche against the Prussians. Brave even to rashness, often and grievously wounded, he rose, by his brilliant actions, to the rank of general of division in 1799. He contributed much to the victory of Zurich, and was chief of the staff of Massena, to whom he gave important assist-In 1805, ance at the siege of Genov. Oudinot obtained the command of the new corps of grenadiers. After the taking of Vienna, he obtained possession of the bridge of Tabor, by snatching a lighted match from the hand of an Austrian artillerist. In 1807, Napoleon raised him to the rank of count. June 14, 1807, he You de head against the Russian army at friedland, until Napoleon arrived with his rany to complete the victory. After the peace of Vienna, in 1809, Napoleon made

1812, he commanded the twelfth corps. was for some months governor of Berlin, fought gloriously on the Dwing and the Beresina, was severely wounded; and escaped being taken only by his extraordinary courage. In the campaign of 1813. he lost (August 23) the battle of Grossbecren. (q. v.) He took part in the battle . of Leipsic and most of the battles in 1814. After the capitulation of Paris, he declared for the provisional government. Louis XVIII appointed him commanderin-chief of the grenadiers and royal chasseurs. During the hundred days, he lived upon his estate. After the second restoration, the king appointed him commander of the Parisian national guardan office which he lost at the suppression of this body, in 1827. In 1823, he was governor of Madrid.

Oudney. (See Chapperton.) Oues, Sr.; a small village about five miles N. of Paris, with 1550 inhabitants. It has become celebrated in history by the declaration issued here by Louis XVIII. (q. v.), May 2, 1814, promising to maintain constitutional principles. The manufactures of Ternaux have also given it In 1351, when king John celebrity. founded the order of the star, he assigned to it, as its place of assembly, the château at St. Ouen, called Noble Maison, whence the knights were often called chevaliers de Noble Maison. St. Ouen is adorned with numerous country scats.

Oursconsin, or Wisconsin; a river of the North-West Territory, (q. v.)

Ounce. (See Jaguar.) Ourang-Outang. (See Ape.)

Ource, Canal de L', runs from the river of the same name, and is chiefly intended to supply Paris with water, and to feed the canals of St. Denis and St. Martin. Its navigation is of little importance. It supplies the reservoir La Villette, to the N. E. of the city; from which the water is conducted into the city by pipes. The expense was 24,000,000 frames.

inna, to whom he gave important assistance at the siege of Genos. In 1805, and in the siege of Genos. In 1805, and in the command of the lew corps of grenadiers. After the taking of Vienna, he obtained possession of the oridge of Tabor, by snatching a lighted match from the hand of an Austrian artilerist. In 1807, Napoleon raised him to be rank of count. June 14, 1807, he can be completed in the Russian army at a friedland, until Napoleon arrived with his length of the complete the victory. After the least of Vienna, in 1809, Napoleon made and marshal and duke of Reggio. In

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published his Oriental Miscellanies, &c. He was afterwards appointed major of a regiment of dragoons at Carlisle. When this regiment was reduced, he went to London to devote himself to bis favorite The university of Dublin con-Duruns. ferred on him the degree of doctor. He also received marks of distinction from several other universities and learned societies. When negotiations were opened with the Persian court, he accompanied his brother, the ambassador (sir Gore Ouseley), as private secretary, and, in 1819, published an account of his travels in Persia. Among his works are the Oriental Collections (1797, 3 vols., 4to.), partly extracts and translations from Arabic, Persian and Torkish manuscripts, and in part essays; Observations on some Medals and Gens, bearing Inscriptions in the Pahlavi or ancient Persian Character (1801, 4to.); a Translation of Ebn Haukal, &c. (see Persian Literature); a descriptive catalogue of his excellent collection of Persian, Arabic and Turkish manuscripts, and some Anecdotes from Oriental Bibliography (1827); another catalogue of his Oriental manuscripts in 1831.

OUTFLANKING. (See Flank.)

OUTLAWRY is the putting one out of the protection of the law. Anciently, in England, an outlawed felon was said to have caput lupinum (a wolf's head), and might be knocked on the head like a wolf, by any one that should meet him; for, having himself renounced or evaded the law, he was to lose its protection, and or dealt with as in a state of nature, where every one that should find him might slay him. But the inhumanity of the law, in this gespect, had become softened as early as the times of Bracton; and now, no man is entitled to kill him wantonly, and in so doing he is guilty of murder. A defendant is outlawed, in England, upon certain proceedings being had, when he does not appear to answer to an indictment or process. In an indictment for treason or felony, an outlawry of the party indicted is equivalent to a conviction. Any one may arrest a person outlawed on such an indictment, either of his own motion, or upon a warrant, called a capius utlagatum, for the purpose of bringing him to execution. In other cases, the effect of outlawry is the forfeiture of the goods of the outlaw to the king, in whom they become vested for the benefit of the plaintiff, in the suit in which the outlawry is had. Another consequence of outlawry is, that the his own name; he is, in this respect, de- Italian school. Branches Same A Section of the section of

prived of the benefit of the law, and is, consequently, stripped of all his civil rights. The object of these severe penalties is, to compel persons sued in civil process, or indicted, to appear and answer, instead of absconding and leaving the kingdom. The law is careful that so heavy penalties should not be incurred without sufficient grounds, and the most exact and formal proceedings. It is, accordingly, provided by Magna Charla, that none shall be outlawed otherwise than according to tho laws of the land. The ordinary proceeding for this purpose is, to issue three writs successively, to arrest the defendant. If he is not to be found, the coroner is ordered, by writ, to exact or demand him, in five county courts successively, and the sheriff is ordered to make proclamation three times, in the most public places in the county of his residence, calling upon him to appear and answer to the suit or indictment. If he does not thereupon appear, a judgment of outlawry is passed. If, however, there is any, the least, defect in the proceedings, this judgment may be reversed on error. No process of outlawry is known to be in use in any of the U. States. If a criminal escapes from the country, the government authorizes its officers to make application to the authority of the country to which he flees, to surrender him, that he may be brought back and put upon his trial. When a person, answerable in a civil suit upon a contract. leaves the country, the party to whom he is answerable may, in most cases, follow him to the foreign country, to enforce the contract against him there.

OUTLINE, in drawing, is the representation of an imaginary line circumscribing, the boundary of the visible superficies of objects, without indicating, by shade or light, the elevations and depressions, and without color. Only one indication of light and shade is used in outlines-the greater lightness or darkness of the lines, and a skilful artist can produce much effect with these scanty means. study of contour, or outline, is of the greatest importance to the painter; it is to him what the fundamental bass is to the musician. In recent times, great attention has been paid to outline, and many engravings have been published, representing only the outlines of celebrated'. works of art, or original compositions, in / outlines, by celebrated artists, such as . Cornelius. In painting, the outlines may be sharp, as in the ancient German school, or more soft and less defined, as in the

Our or Tain; the state of & ship when she is not properly balanced for the purposes of navigation, which may be occasioned by a detect in the rigging, or

in the stowage of the hold.

Octaloger; a strong beam of timber, of which there are several, fixed on the side of a ship, and projecting from it, in order to secure the masts in the act of carcening, by counteracting the strain they suffer from the effort of the carcening tackles, which, being applied to the masthead, draw it downwards, so as to act upon the vessel with the power of a lever, whose fulcrum is in her centre of gravity.—Ontrigger is also a small boom, occasionally used in the tops, to give additional security to the topmast.

OUTWORKS are all works of a fortress which are situated without the principal wall, within or beyond the principal ditch. They are designed to obstruct the attack upon the principal wall, to intercept the shot against the same, and to afford a lateral defence. All outworks must, therefore, be so constructed, 1. that the enemy must attack them before he can reach the principal wall; 2. that they give lateral defence to the principal wall; 3. that they completely cover all parts of the principal wall from the enemy's batteries crected beyond the glacis; 4. that they shall be conspicuous from the principal wall. For the most part, though not always, they are some feet lower than the principal wall. The most common outworks are, I. the tenaille, which lies in the ditch, between two bastions, before the curtain, and has usually the form of a re-entering angle; 2. the ravelin; by it are sometimes placed, 3. lunelles; 4. counterguards (couvrefaces) serve as a protection to the faces of the bastion, sometimes in the form of a saliant angle, before the bastion. Beyond the principal ditch, yet united with it by their ditches, are situated (to strengthen important points), 5. horn-works, which consist of two demibastions joined with a curtain, and these, again, are attached to the fortress by two wings, i. e. walls with moats; 6. crownworks, where a whole and two demibastions are employed, instead of two half bastions only; 7. tenailles, consisting of a re-entering angle, which is appended to the fortress by wings. If there are two neighboring re-entering angles, then the work is called, 8. a double-tenaille; if the two wings are not parallel, but converging or diverging, then they are called, 9. sicallow's-taus, and, 10. solution the cov-9. sicallow's-tails, and, 10. honnet-à-prêtre,

ered way, as in almost all other out works, there are frequently constructed works of various forms, which are called, 11. redobbts. On the glacis, or near its foot, frequently stand, 12. fleches, or, 13. lunettes, which have a shape resembling the bastion, and are not to be confounded with No. 3: 14. detached works; they become 15. forts, or detached forts, when they are distant 500 paces, and more, from the glacis, are larger and more substantial, and, for the most part, fortitied also behind.

OUVRARD, Gustavus Julian, born at Nantes, in 1775, was at first a merchant there, and acquired a large fortune by successful speculation. Being well acquainted with the condition of affairs, and with men, he undertook extensive contracts for supplies during the time of the republic, under Napoleon's reign, and after the restoration. Fouché sent him, on a secret mission, to England, in 1810, for the purpose of sounding the disposition of the government in regard to peace. Napoleon having sent a secret messenger to London on the same business, both of them failed in their purpose, and were obliged to leave England. Ouvrard was thrown into prison, and Fouché lost his place, in consequence of the affair. Ouvrard's contract for the supply of the French army in Spain, in 1823, involved him in a process, which resulted in his acquittal. (See France, History of, vol. v. p. 229.) Ouvrard has himself given an account of this affair, in his interesting Mémoires sur su Vie et sur ses Opérations financières, of which we have a translation in English.

Ovary (diminutive of orion, an egg). The ovaria are two flat oval bodies, about one inch in length, and rather more than half in breadth and thickness, suspended " in the broad ligaments, about the distance, of one inch from the uterus behind, and a They . little below the Fallopian tubes. include a number of vesicles or ove, to the amount of 12 to 20, of different sizes, joined to the internal surface of the ovaria by cellular threads or pedicles, and contain a fluid which has the appearance of thin lymph. The ovaria prepare whatever the female supplies towards the formation of the fætus: this is proved by the operation of spaying, which consists in the extirpation of the ovaria, after which. the animal not only loses the power of conceiving, but desire is for ever extinguished. These vesicles have been generally regarded as little eggs, which detach themselves from the ovary after fecundation, and are carried into the nihes

OVATION. (See Triumph.)

OVERBECK, Frederic, one of the most celebrated among the living painters of Germany, was born in Lübeck, 1789, and studied his art in Vienna, since 1806. In 1810, he went to Rome, where he became a Catholic, married, and has resided ever since. Overbeck belongs to the admirers of the simplicity and quaintness of the first Italian and German painters, of which his productions afford decisive proofs. He was selected, with Schnorr and Veit, to paint, in fresco, the villa of the marquis Massimi. Histask wasto represent scenes from Tasso. In every picture he shows, indisputably, that he is born for an artist; there are great beauties in every one of them, yet many persons do not like his sim-plicity, which frequently degenerates into childishness and quainmess. The past cannot be restored, not even in art.

Oversury, sir Thomas, principally known by the tragic circumstances of his death, was descended from an ancient family in Gloucestershire. He was born in 1581, in Warwickshire, and, in 1595, was entered a fellow-commoner of Queen's college, Oxford. After taking a degree, he removed to the Middle Temple, for the study of the law; but his inclination being more turned to polite literature, he preterred the chance of pushing his for-tune at court. In 1604, he contracted an acquaintance with Robert Car, the worthless favorite of James I. The ignorance and mean qualifications of this minion rendered the services of a man of parts and education, like Overbury, exceedingly welcome, and he repaid his services by procuring for him, in 1608, the honor of knighthood, and the place of a Welsh judge for his father. The intimacy contimued to be mutually advantageous, until the favorite engaged in his amour with the countess of Essex. Sir Thomas countenanced this gallantry in the first instance; but when that infamous woman had, by a series of disgraceful proceedings (but too much countenanced by the king himself), procured a divorce from her husband, he opposed the projected marriage between ther and her gullant, by the strongest re-monstrances. This counsel Car (then become viscount Rochester) communicated to the lady, who immediately exer--cised her influence for the removal of her adversary. An attempt was made to place him at a distance, by appointing him to a

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cavity of the womb by the Fallopian exercised with considerable arrogance, he On the ground of refused to accept it. disobedience in declining the king's service, he was immediately arrested, and committed a close prisoner to the Tower, in April, 1613, and all access of his friends At length, fear of his was debarred. resentment and disclosures, if released, induced Car and the countess (now become his wife) to cause infected viands to be administered, at various times, to the unhappy prisoner, who finally fell a sacrifice to a poisoned clyster, Sept. 15, 1613. . All these facts afterwards appeared in evidence, when the accomplices in the murder were tried, and sir Gervase Elways, the lieutenant of the Tower, a creature of Car's, with several others, were con-(then become earl and countess of Somer. ... set) were also convicted and condemned, but, to the disgrace of James, pardoned for no assignable cause that will not add to the ignominy of the proceeding. Sir Thomas Overbury wrote both in verse and in prose, and his poem, entitled the Wife, has been much admired. .

Overt; the same with open. Thus an overt act signifies an act which, in law. must be clearly proved, and such as is to be alleged in every indictment for high treason.

Overture, in music; an introductory symphony, chiefly used to precede great musical compositions, as oratorios and operas, and intended to prepare the hearer for the following composition. But the Germans have even composed overtures for poetical works, as Beethoven's overture to Göthe's Egmont. Overtures are often played independently of the work for which they were written, as at the beginning of concerts; but their highest office is to convey to the intelligent lover of music the whole character of the followingpiece, or to concentrate its chief musical ideas, so as to give a sort of outline of it in instrumental music. The latter mode of composing overtures was first conceived by the French, and such is the character of the overtures of their great composers, particularly Cherubini. Charles Maria von Weber, in the overtures to the Freischutz and Oberon, has observed this rule, which did not exist when Mozart composed his admirable overtures to Figuro and Don Juan, in which the general character of the following piece is given. In the eldest overtures the fugue was the chief part, preceded by a grave in 4 time, not too him at a distance, by appointing upon his much prolonged, and closing in the foreign mission; but, relying upon his much prolonged, and closing in the norm, ascendency with the favorite, which he inante. The grave was often repeated af

Handel's oratorios have this form. Another form come into vogue at a later period-three musical parts, in different movements-an allegro, an andante, and again an allegro, or presto, were united. 'At present, the most usual form is a brilliant and passionate allegro, preceded by a short, solenn passage. Gluck, in his overnure to phiceria in Adis, was the first who used this form.

Oymius, Publius, surnanced Naso, one of the most celebrated Roman poets of , the Augustan age, was of an equestrian family, born at Sulmo, in the country of the Pelignians, B. C. 43. Though inferior to some of his contemporaries in purity and finish of style, he is surpassed by none of them in graceful elegance and versatility, although sometimes disfigured by prolixity, a straining after antitheses, and a forced pleasantry. But he is very happy in exhibiting the minute and peculiar traits of passion. Many of his tales are uncommonly lively and pleasing: for example, Pyramus and Thisbe, Dædalus and Icarus, Philemon and Bancis. Ovid says himself, in the tenth elegy of the fourth book, in which he describes his feelings and his life, that he was born a poet. In spite of the exhortations of his father, who wished to make him a lawyer, he had been inclined from childhood to the service of the Muses. His travels in Greece and Asia added to his accomplishments. His fondness for case and the enjoyments of life, which his fortune placed within his power, prevented him from spending much time in perfecting his verses. His poetry has much of a sensual character, but is distinguished for the choice of the subjects, and for beauty of description. His most celebrated work, a poetic picture of mythology, is the Metamorphoses, written in hexameters—an extraordinary work, if we regard it as a whole, as it unduestionably was the design of the author that it should be. Connected by a band which we are often in danger of losing from our sight, we see a beautiful series of different tales drawn from a formless chaos. We see the world, with its harmony and order, and every thing which lives and moves in it, unfolded, through the mythological and ancient times, down to the days of Julius Cesar. Each one of these tales ends with a metamorphosis; but this frequently appears like an episode, while a long series of verses, which have not the least relation to it, contain all that is most beautiful and attractive. Similar

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ter the fugue. Most of the overtures of tichs, in which some tale from mythology, or from the old Roman and Italian history, is given for every remarkable day and festival of the Roman calendar. It is called the Fasti, but embraces in six books only the first six months. 'We have three' other poems of his on the subject of love. all written in elegiac measure: the Amores, or Roman love songs; the Ars Amandi (Art of Love); and the Remedium Amoris, or . Remedy of Love. They contribute to give us an idea of the corrupt state of morals at that time in the Roman empire. Ovid also attempted, and not without sugcess, a new and peculiar kind of poetry. We have twenty-one pieces called He-; roides (q. v), some of which, however, are considered as spurious. He wrote also elegies, in the proper sense of the word, that is, songs of lamentation (he calls them Tristia), and letters (Epistola ex Ponto), likewise in elegiac verses, and written in a similar train of thought, during his exile. Even in these poems his tone is far from being depressed, although his heart was heavy, and the burden of years was already pressing upon him. The stream of his verses, however, in these productions, is sometimes shallow; yet here and there we find places where his feelings are expressed with truth and liveliness. Until his tiftieth year Ovid appears to have lived almost solely for poetry and for pleasure, in an easy intimacy with his relations and friends, and was a welcome. visitor at the court of Augustus. works were well adapted to the public taste, and had obtained him much reputation; and he might have hoped to pass the remaining years of his life in peace under the shadow of his laurels. But Augustus suddenly banished him to Tomos, on the inhospitable coasts of the Black sea, the habitation of the rude Getae. He declares, in more than one place, that an error, and not a crime, was the cause of his exile. He trequently calls his pootry the cause of all his unhappiness. His li-centions verses were certainly not the cause of his punishment, but he hints that he had seen something, and thus drawn upon himself the anger of Augustus. Many think that this had reference to the .; shameful licentiousness of Julia, the infamous daughter of the emperor. Ovid died at Tomos, after ten years of exile, at the age of sixty, A. D. 18. Among the poems which he left, there is a piece, in elegiac verses, called the Ibis, full of abuse. and maledictions against some unknown person. Some other smaller poems are to this is another poem of Ovid's, in dis-, talsely attributed to him. But many real-AND THE RESERVE OF THE PARTY OF

p. 242 - 11 ly authentic pieces have been lost; among others, his tragedy Medea. Among the best editions of the entire works of Ovid. and of some particular poems, is that of Nicholas Heinsius (Amsterdam, 1658-61. 3 vols., 12mo.), improved, and accompanied with notes by Burmann (1727. Amsterdam, 4 vols., Ato.). From this, with the notes of Heinsius, and an excellent verbal index, Fischer published a new edition (Leipsic, 1758 and 1773, 4 vols.). Mirscherlich published an edition of the complete works from the text of Burmann (Goningen, 1796-98, 2 vols.). The latest is that of Baumgarten Crusius (1825). Of the Metamorphoses Gierig has given a good edition, with an excellent Latin commentary (Leipsic, 1804—7; new edition, Leipsic, 1821—23, 2 vols.); and likewise of the Fasti (Leipsic, 1812-14). Of the elegies and epistles an edition with notes has been published by Harles (Erlangen, 1772) and Oberlin (Strusburg, 1778). De St. Ange (died in 1811) made a good translation of Ovid's works into French verse (new edition, Paris, 1821, 11 vols.).

OTIPAROUS. (See Egg.)
OWEN, John, D. D., an English nonconformist divine, was born at Stadham, in Oxfordshire, in 1616, of which place his father was vicar. He studied at Oxford, and remained at college until his 21st year. On the breaking out of the civil war, he took part with the parliament, become a tutor in the family of sir Robert Dormer, and chaplain to lord Lovelace, but subsequently repaired to London, where he wrote his Display of Arminianism, which was published in 1642. He had hitherto been a Presbyterian in matters of church government, but now adopted the Congregational or Inde-, pendent mode, as more conformable to the New Testament, and published his reasons. During the siege of Colchester, he became acquainted with general Fair-fax, and, having acquired great celebrity, was appointed to preach at Whitehall, the day after the execution of Charles L. He was soon after introduced to Cromwell, whom he accompanied in his expeditions both to Ireland and Scotland, and, in 1651, Oxford, and, in 1652, was nominated by tend to general advantage. The quitines eity, his vice-chancellor. On the death. of the protector, he was deprived both of that and his deanery, by the influence of the Presbyterian party. At the meeting of his brethren at the Savoy in 1658, he took a great part in drawing up the confession of faith, of the Congregational

While the bill to revise the churches. conventicle act was pending, he drew up reasons against it, which were laid before the lords. He' died in 1683, in the 63d year of his age. Doctor Owen's works, which are of a high Calvinistic character. amount to seven volumes in folio, twenty in 4to., and thirty in 8vo. In this number are an Exposition on the Epistle to the Hebrews (in 4 vols., folio); a Discourse on the Holy Spirit; a complete Collection of Sermons, and several Tracts (folio); an Inquiry into the original Nature, Institution, &c. of Evangelical Churches (4to.); an Account of the Nature of the Protestant Religion, &c.

Owen, Robert, was born at Newtown, Montgomeryshire, about 1772, and inherited a moderate fortune. He was carly engaged in the business of making machinery and spinning cotton at Manchester, and afterwards managed, during three or four years, a large spinning establishment there. He then formed a partner ship with some other manufacturers of Manchester, and built the Chorlton mills. In 1800, he became proprietor of the celebrated works at New Lanark, which had been creeted, sixteen years before, by his father-in-law, Mr. Dale, on the banks of the Clyde, about a mile from the town of Lanark. Mr. Owen had for some time been engaged in the study of plans for ameliorating the condition of the poor, and he here attempted to carry them into effect. Some idea of his scheme may be obtained from his New View of Society (1813), his Memorials to the Governments of Europe and America (1819), and Mac nab's Description of the Establishment at New Lanark. The number of persons employed at New Lanark is not less than 2500. They work from six o'clock in the morning till seven in the evening; and the children are engaged at school from eight till ten at night. In the general arrangement of his economies, and in the most trifling details of the daily life, Mr.Owen's will is supreme. His practice seems to have been taken from the Moravian settlements, but with this difference, that among them property is in common; but by his was made dean of Christ-church college, plan such things only are in common as Cromwell, then chancellor of the univer- of it are these :- A society is formed consisting of laborers in agriculture and manufacturers, who shall occupy a certain portion of ground, say 20,000 acres. A spot in the centre is enclosed for the township, on each side of which the ground is laid out in spots for a supply of food. The square, or township, is occupied by people

employed in manufactures, or in the business of the settlement. The farm-houses, barns, cart-houses and stables are placed on the most convenient spots, and the foun forms a very large oblong square; on one of the longest sides the houses for the inhabitants are built, and on the shorter sides are the school and dwellings for the boys, and on the other side those for the girls. In the centre is a large house for the society to cat in, and around it various offices. The large space between these buildings and the houses is filled up by gardens, play-grounds for the children, &c.; and behind the children's schools are bleaching-grounds for drying linen, Thus far is certain, that Mr. Owen's own settlement of New Lanark, instead of appearing like a refuge for the poor, exhibits a picture of ease, happiness, heatness and content. The avowed principle upon which his establishment is regulated is that of humanity to the laborers, including a regard for their intellectual, physical and moral welfare. The discipline to which they are subjected is strict, but they are provided with means of amusement as well as of instruction. Music and dancing, which Mr. Owen considers as means of reforming or preventing vicious habits, by promoting cheerfulness, and relaxing the mind, are encouraged among them. Mr. Owen is of opinion, that man is the creature of circumstances, and that therefore his character depends altogether on his situation; it is only necessary to surround him with circumstances adapted to the dispositions which it is desirable to produce, and he will become what he should be. The docuring of future accountability, he thinks, has caused most of the evil which exists in the world; human nature has never been understood by society; all the various systems of religion which have prevailed in the world are founded in prejudice and delusion, and contain too much error to be of any use in . the present advanced state of society. (See Griscom's Year in Europe.) Community of goods, as we have before stated, to a certain extent, a general equality, and cooperation for the common welfare, are also parts of his system, which, in many its features, has been carried on by the cooperative societies (q. v.) in England. Mr. Owen's success in his manufacturing establishment at New Lanark, led him to assert with much confidence that his principles were applicable on any scale, in ag-- ricultural as well as in commercial nations, and might be universally employed as an

antidote to all the evils which seem inseparable from society on its ancient footing. In 1825, he accordingly purchased Rapp's establishment of New Harmony; centre, or town, is thus arranged: the in Indiana (54 miles below Vinconnes). consisting of from 80 to 100 large and substantial buildings, with the land in on excellent state of cultivation. Here he collected around him from 700 to 800 persons, among whom were a considerable number of men and women of education, enamored of the itew "social system," The churches were converted into workshops, general equality was proclaimed, and all the members of the society met in the evenings to dance or sing together. Matrimony was declared to be in no way indissoluble, as it was considered a great absurdity to promise never-ending love; and children were no impediment to a separation, because from their second year they belonged to the community, and were all brought up together. The duke of Saxe-Weimar, who has given an interesting description of New Harmony, found the better part of the society dissat-isfied with their boasted equality, and it soon after came to an end. Mr. Owen, after publishing his Declaration of Mental Independence, July 4, 1826, returned to Furope, and the social system at New Harmony was abandoned. Other communities on Mr. Owen's system have been formed in Great Britain and Ireland, and have effected much good among the poor. The utility of some parts of the system is not to be denied; but it must be confessed that there are fundamental errors connected with it; and it will hardly be doubted that its application to society in general is neither practicable nor desirable. (See St. Simon.

OWHYHER. (See Sandwich Islands.) Own (strix); a nocturnal bird of prey, whose appearance and harsh voice are well known. They are distinguished by having , a large head, very large eyes, directed forwards, encircled by a ring of fine feathers covering the base of the beak and the opening of the ear. Their external toe can be turned behind at pleasure. If any analogy is allowable between different tribes of animals, the owls might be said to resemble moths, and to differ from the diurnal birds of prey as these do from butterflies. They are wholly nocturnal (except a few species), seeking for their prey during the evening or night; and, from the enormous size of the pupils of their eyes, they are enabled to see well in the dark; while, in the day, their sense of sight is imperfect; hence, during this

time, they keep concealed in some secure retreat. Their licaring is very acute, and their plumage soft and loose, enabling them to fly without noise, and thus to come on their prey in an unexpected manner. They feed on small birds, mice, buts and moths, swallowing them entire, and casting up the indigestible parts in the form of small balls. They breed in fissures of rocks, or in holes of trees, the female laying from two to six eggs. They are found in every part of the globe. The genus strix of Linnaus has been variously subdivided by modern naturalists. Cuvier admits the following sub-genera: alus. ulula, strix syrnium, bubo surnia, nyclen, nudipes, scops.—In North America there are ten or twelve species of these birds, some peculiar to the country, and others common to the two continents. nave been arranged by Bonaparte (see Annals Lyceum Nat. Hist.) in the following manner: sub-genus surnia; & func-rea, or hawk-owl (nyclea, scops syrnium, bubo, Cuv.); blackish-brown, thickly spotted with white, beneath varied with white and brown; tail with narrow white bands, and reaching three inches, beyond the wings; feet densely covered with long feathers; bill yellow. This species is very rare: it inhabits the north of both continents. S. myetea (snow owl): white, more or less spotted, and barred with dusky; tail rounded, reaching but little beyond the wings; feet densely covered with long tenthers; bill black; inhabits the north of both continents; not very uncommon. S. cunicularia (burrowing owl); cinnamon gray, spotted with whitish; beneath white, spotted with chanamon brown; tail even, reaching but little beyond the wings; feet covered with short, scattered bristles. This is peculiar to America, is found near the Rocky mountains, and as far south as Paragnay. S. asio (mottled or red owl); dark brown; young tawny red, mottled with black, pale brown and ash-color; wings spotted with white; beneath white. mottled with black and brown; tail even, reaching to the tip of the wings; feet densely covered with short feathers; inhabits America; common. Sub-genus ulula (otus, ulula, bubo, syrnium, Cuv.). S. otus (long-carcel owl); mottled, primaries banded with ferruginous; tufts long; wings reaching beyond the tail; found in both continents; countyon. *S. brachyotos (short-eared owl); whitish ferruginous, spotted with dark brown; tufts short; wings reaching to the tip of the tail; found in both continents; common. S. nebulosa (barred owl); pale-brown, with transverse,

whitish spots; beneath whitish; neck and breast with transverse bars; belly and vent with longitudinal streaks of brown; tail reaching beyond the wings; bill yellow; found in both continents; common. S. acadica (little owl); dark-brown, spotted with white; beneath whitish, spotted with reddish-brown; tail short, reaching about to the tip of the wings; very small; inhabits both continents; more common in America. Sub-genus bubo, S. Virginiana (great horned owl); mottled; primaries and tail-feathers banded with black and dusky; auricular conch restricted; wings not reaching to the tip of the tail; very large; found in most parts of America. S. cinerea (cinercous owl); dark-brown, mottled with whitish; face white, with black, concentric circles: tail reaching beyond the wings; both fasciated; the bands mottled; bill yellowish-white : iris yellow ; inhabits arctic America, the largest species in this S. flammea country. Sub-genus strix. (barn owl); yellowish tawny, with small spots of white; beneath whitish, with blackish points; wings reaching two inches beyond the tail; bill whitish; found in both continents. There are several in both continents. other species said to exist in America; thus Mr. Say indicates S. bubo and phala-noides, &c. The barn out, also called common screech or white ord, is a bird of elegant plumage, in length between thirteen and fourteen inches; stretch of wing three feet. It is very common in Europe, North and South America, in the descris of Tartary, in Persia, Hindoostan, and even in Australasia, and is met with af the cape of Good Hope. In Europe, it chiefly frequents inhabited districts, and deposits from two to six eggs in a hole of a wall, under the caves of buildings, in decayed trees, &c., without any formal nest. It usually haunts churches, towers, . barns, maltings, farm-houses, &c. In a state of nature, it generally leaves its baunts about twilight, skimming along the ground, exploring the neighboring woods for prey, and returning before sunrise, making a sort of blowing noise, like the snoring of a man with his mouth open. When it flies or alights, it doles out certain lugubrious notes, which, added to the solemnity of the scene, especially when near church-yards, often inspire awe and; apprehension in the minds of the ignorant.

Owlenspiegel. (See Eulenspiegel.)
Ox; the general designation for the different species and varieties of the genus bos. This is distinguished by having smooth horns, directed sideways, and then

curving upwards or forwards in a semilunar form. The common ox (B. taurus) has a flat forehead, which is longer than it is broad, and round horns placed at the two extremities of a projecting line which separates the front from the occiput: the horns, however, differ so much in their form and direction in the numerous varieries which domestication has produced in this species, that no specific character can be based upon them. The colors of these animals are extremely variable, being reddish, white, gray, brown, black, &c. As with most of the other animals which have been in a state of domestication from the earliest ages, it is difficult to determine from what species 'they were originally derived: it has been generally supposed that it was the bos urus, but Cuvier has shown that this idea is erroncous. few animals is man more indebted for importunt services than to the common ox, and none afford him so many articles of food. Throughout a great part of the world, its flesh is the principal article of animal food, while from the milk of the female, of itself an almost indispensable part of our dict, are manufactured cheese, butter, cream, &c. The skins fornish the greatest part of the leather used in the arts. In fact, there is scarcely any part of this valuable animal that is not useful to mankind. The horns are converted into combs, knife-handles, &c.; glue is made from the refuse of the skin, hoofs, &c.; the bones form a cheap substitute for ivory; the blood is employed in the manufacture of prussian blue; the hair is used by plasterers, and the fat in the formation of candles and soap.—The period of gestation of the cow is the same. as that of the human species, and she "most generally has but one at a birth. * The young, like that of the horse, is very perfect and vigorous soon after birth. though it needs the care of the mother for a considerable time. It attains its full vigor at about three years, and the natural term of its life is about fourteen years. The domesticated ox is liable to many diseases, one of which arises from its swallowing the hairs that it licks from its own body. These hairs, being indigestible, remain in the stomach, and at last become united into large, solid balls. The varieties produced by domestication and climate are innumerable, and impossible to designate.—B. urus (wild bull; bison of the ancients). This species is distinguished by an arched forehead, wider splet it is long; horns attached below the ricultural ridge; by the length of its legs; These crystals must be dissolved in water,

by an additional pair of ribs; by a woolly hair which covers the neck and head of the male, forming a beard under the chin. This animal appears to have formerly been a native of all parts of Europe, but is now only found in the forests of Lithuania, &c. It is exceedingly ferocious and intractable, One of the most extraordinary species is the B. grunniens (grunting ox, horse-tailed ox, or yack). This is a small animal, with a tail fesembling that of a horse, and also with a mane on the neck and back. It has a short head, broad nose, and large ears; the horns are short, slender, round, upright, sharp-pointed, and bend inwards. The whole body is covered with long hair, and is entirely black, except the front, ridge of the buck, and tail, which are white. There is much dispute about the size, some travellers describing it as smaller than the domestic cow, while offi-ers state that it is far larger. The only specimen in this country, brought from the mountains of Thibet, and in the collection of the Philadelphia museum company, is small, not exceeding an Alderney cow in size. From the accounts of Russian' naturalists, it appears probable that there are two varieties, differing materially in The voice of these animals is very peculiar: instead of lowing, like the other species of this genus, they utter a sound resembling the grunting of a hog. They are susceptible of domestication, but always retain some of their natural ferocity. The wild breed are very dangerous, fighting desperately when attacked. The most valuable part of these animals is their tail. They form the standards designating the rank of superior officers in the Turkish army, and are extensively used in India as brushes to drive away insects: they are also employed by the Chinese to adorn their caps. (See Bison, Buffalo, Musk Ox.)

OXABEVEIPE; a mineral from the hot. spring of Oxhaver, in Iceland. It occurs in thin veins and crystals, which are acute octahedrons, with a square base. It appears to be a variety of apophyllite.

Oxalic Acid. This acid may be obtained from sugar, as follows:-To 6 oz. of nitric acid, in a stoppered retort, add by degrees 1 oz. of loaf-sugar in small lumps. A gentle hear may be applied during the solution, and nitric oxide will be evolved in abundance. When the whole of the sugar is dissolved, distil off a part of the acid, till what remains in the retort has a sirupy consistence; and this will, on cooling, form regular crystals, amounting to 58 parts from 100 of sugar.

recrystallized and dried on blotting paper. Numerous other substances, when treated by distillation with nitric acid, afford the ozalic acid; such as honey, guni Arabic, alcohol, the sweet matter contained in fat of eils, the acid of cherries, the acid of tartat, beech wood, the acids of currants, citrons, respherries, silk, hair, tendons, wool, also other animal substances, as the congulum of blood, and whites of eggs. M. Berthollet mentions a difference between animal and vegetable substances thus treated with nitric acid, viz. that the former yielded, besides ammonia, a large quantity of un oil which the nitric acid rould not decompose; whereas the oily parts of vegetables were totally destroyed by the action of this acid. He further renearly, that the quantity of oxalic acid furnished by vegetable matters, thus treated, is proportionable to their nutritive quality, and particularly that from cotton he could not obtain any sensible quantity. Oxalic acid is found in the state of exalate of lime in the roots and leaves of a great number of plants. It particularly abounds in the leaves of the oxalis acetosella, and of the O. corniculata. The crustaceous lichens contain nearly one half their weight of oxalate of lime—a substance which is to these plants what carbonate of lime is to corallines, and phosphate of lime to animal bones. Oxalic acid crystallizes in four-sided prisms, the sides of which · are alternately broad and narrow, and the summits dihedral. They are efflorescent in dry air, but attract a little humidity if it They are soluble in one part be damp of hot and two of cold water, and are decomposable by a red heat, leaving a small quantity of a coaly residuum: their acidity is so great, that, when dissolved in 3600 times their weight of water, the solution reddens littmus paper, and is percepti-bly acid to the taste. The oxatic acid is a good test for detecting lime, which it separates from all the other acids, unless they are present in excess. It has likewise a greater affinity for lime than for any other of the bases, and forms with it a pulverulent, insoluble salt. With burytes. it forms an insoluble salt, but capable of dissolving in water acidulated with oxalic acid." Oxalate of magnesia, too, is insoluble unless the acid is in excess. The exalate of potosh exists in two states, that of a neutral salt, and that of an acidule. The latter is generally obtained from the juice. of the leaves of the sorrel, ten parts of to concert measures for continuing the of the leaves of the sorred, ten parts or to concert measures which yield five of juice, which give a little war. The Swedish government conferred war. more than one two hundredths of the sais, on him full powers to adopt any measures which requires to be repeatedly crystallized which he considered for the public good. Single Property Control of the Contr

in order to obtain it pure. It unites with barytes, magnesia, soda and ammonia, and most of the metallic oxides, into triple salts. This salt, besides its use in taking out inkspots, und as a test of lime, forms, with sugar and water, a pleasant, cooling beverage, and possesses considerable powers as an antiseptic. Oxalic acid acis as a violent poison when swallowed in the quantity of two or three drachnes; and several fatal accidents have lately occurred, in consequence of its being improperly sold for Epsom salts. Its vulgar name of salts, under which the acid is bought for the purpose of whitening boot pps, occasions , these lamentable mistakes. The immediate rejection from the stemach of this acid by an emetic, aided by copious draughts of warm water containing bicarbounte of potash, or soda, chalk, or carbonate of magnesia, are the proper remedies.

Oxenstream, Axel, count of; a Swedish. statesman, born at Fano, in Upland, in 1583. His own inclinations and the wishes of his family baving destined him for the church, he applied himself, at Rostock, Wittenberg and Jena, principally to theology, for the study of which he always retained a predilection. After finishing his studies, he visited most of the German courts, and, in 1602, returned to Sweden. In 1606, Charles 1X sent him on a public mission to Mecklenburg, and, in 1608, he was admitted into the senate, in which his thirteen immediate ancestors had held a . seat. The infirmities of age having induced his sovereign, not long after, to appoint a regency, Oxenstiern was placed at the head of it, and, on the accession of Gustavus Adolphus, was made chancellor. In 1614, he accompanied the new king to Germany, and soon after had the satisfaction of seeing the hostilities between Sweden and Russia terminated by the honorable pence of Stolbova. He was subsequently appointed governor-general of , all the conquests of the Swedish arms in Germany; and when Gustavus (q. v.) penetrated into the heart of that country, Oxenstiern was invested with full powers in all affairs, both civil and military, on the Rhine, and fixed his head-quarters at Mentz, while Gustavus advanced into Ba-; varia and Franconia. On the fall of his master at Latzen (1632), he exerted himself in every way to protect Sweden and her allies, and visited Dresden and Berlin, A

as the head of the Protestant league. This league was held together and supported solely by his influence and wisdom, and, in 1636, he returned to Sweden, after an absence of ten years, laid down his extraordinary powers, and took his seat in the senate, as chancellor of the kingdom, and one of the five guardians of the queen. His great aim was to bring the German war to a successful conclusion; and with this design he sent his son John to Germany, in the capacity of Swedish plenipotentiar. In 1645, he assisted in the negotiations with Denmark at Bromsebro, and, on his return, was created count, by queen Christina (q. v.), and at the same time was elected chancellor of the university of Upsal. When the queen declared her intention of naming her successor, Oxenstiern opposed that measure with all his influence, and resisted, with still stronger urgency, her determination to abdicate the crown; finding her, however, fixed in her resolution, he pretended sickness, as an excuse for staying away, and taking no part in a step which he foresaw would be the beginning of evil. From that time, he took no pleasure in public affairs, although he continued to serve his country with zeal and ability until his death, in 1654. Ovenstiern must be ranked among the greatest men who have taken a distinguished part in the 'affairs of the European world. Great and elevated views, a wonderful political sagacity and foresight, firmness and lottiness of purpose, wisdom in contriving and prudence and energy in executing, a strict integrity, and a constant devotion to the welfare of his country, are among the characteristics of this great statesman. The constitution, which was prepared by him, and accepted by the states of Sweden in 1634, is esteemed a political masterpiece.

Ox-Eye; a small cloud or meteor, seen at the cape of Good Hope, which presages a dread all storm. It appears at first in the former size of an ox's eye, but descends with such celerity, that it seems suddenly to overspread the whole hemisphere, and at the same time forces the air with such violence, that ships are sometimes scattered several ways, some directly contrary, and many sunk down-

right.

Oxford; a city of England, capital of. the county to which it gives mane; 45 miles S. E. of Worcester, 58 W. by N. of London, 74 S. W. of Cambridge; lou.

He therefore assembled a congress at 1° 16′ W.; lat. 51° 45′ N.; population, in-Heilbronn, in which he was recognised cluding the university, 16,364. It is an episcopal see, and seat of a university. It is delightfully situated on a gentle eminence, in a valley at the confluence of the Isis and Cherwell, and near the Thanfies. Along these rivers, and between them and the city, lies a tract of beautiful and luxuriant meadows. For the beauty and magnificence of its buildings, Oxford is equalled by few cities in the world. From the neighboring heights it presents a grand and imposing spectacle, from the number and variety of its spires, towers, domes and other public edifices, while these structures, by their magnitude and splendid architecture, give it, on a nearer approach, an air of the most striking magnificence. The High-street is one of the most beautiful in the world. The houses inhabited by traders are indifferent. The city contains a cathedral, thirteen elegant parish churches, houses of worship for Catholics, Quakers, Methodists and Baptists, a town and county hall, a jail, a bridewell, an infirmary, market buildings and charity schools. Four members are sent to parliament, two for the city, and two for the university. Markets on Wednesday and Saturday. Oxford has no staple manufacture or branch of trade, but derives its chief support from the university. It is an ancient town, was the residence of Alfred, and has often been the seat of the English kings and parliaments. university of Oxford, from the extent and number of its buildings and institutions, and the wealth of its endowments, is by far the greatest in the world. Its origin is involved in obscurity : some suppose that it was founded, and some that it was revived, by Alfred; others fix its origin considerably later. It is, as is well known, distinguished for its attachment to tory principles, and has been the seat of classical learning in England, while in Cambridge mathematical science has been more assiduously cultivated. It consists of twenty colleges and five halls, each of which forms an establishment within itself, having its own students and teachers, revemesand regulations; yet they are all united under the government of one university. The officers by whom the university, is immediately governed, are the chancel-. lor, high steward, vice-chancellor, and two proctors. In addition to the private officers in each college and hall, who see that due order and discipline are preserved, and all the liberal sciences taught, there are twenty-three public professors of the several arts and sciences. In 1829, the

members of convocation were 2365; members on the books, 5009: About one third of these are maintained by the revenues of the university; the rest live at their own expense. The students wear a peculiar dress. The buildings of the university are very magnificent, and excel those of Cambridge; yet the chapel of King's college at Cambridge is thought to surpass any single edifice at Oxford. The other editices belonging to the university, besides the colleges and halls, are the public schools, the Bodleian library, the picture gallery, the theatre, capable of containing 4000 persons, the Clarendon printinghouse, the Radcliffe library, the Ashmolean museum, the astronomical observatory, and the botanic garden. The Bodleian library is one of the largest and most valuable in Europe. (See Libraries.) There are four terms in the year at the two Eng--lish universities. To obtain the degree of bacholor of arts, a residence of three years, or twelve terms, is necessary at Cambridge; four years, or sixteen terms, at Oxford, except in case of sons of peers, and the eldest sons of baronets and knights, who may stand candidates after three years. For the degree of master of arts, three more years are required. A person of two years standing may be admitted a student of the civil law; after being five years a student, he may receive the degree of bachelor of civil law; and in four years more, the degree of doctor. The degree of bachelor of divinity is conferred on masters of arts of four years standing, and the degree of doctor four years after. (See University.)-Some of the eminent men educated at Oxford are Wickliffe, Wolsey, More, Raleigh, Chillingworth, Hampdon, Harvey, Clarendon, Halo, Locke, Addison, Steele, Blackstone, Lowth, Johnson, Adam Smith, Jones, Gibbon and Fox. The colleges and halls (see College), with the date of their foundation, and munber of fellowships and scholarships, are exhibited in the following table:-

	Colleges.	, ,	rom 🛋	· Full	Scho	J
	Merton					v.
2.	University'	j	280	. 12	. 17	
3.	Baliol	J	281 .	. 12 :	. 14	
4.	Excter	7	314 .	. 25 .	. 1	*
5.	Oriol	٠٠į	326 .	. 18 .	. 13	
().°	Queen's	2.4 }	34U .	. 24 .	. 16	
ų.	New College Lincoln	1	197	19	Q	
9.	All-Souls	. Zi	437	. 40	٠, ٥	٠,
10.	Magdalen	1	450 .	. 40 .	. 30	٠,
11.	Magdalen Brazen-Nose	J	509 .	20 .	. 32	
2.	Corpus-Christ	i . I	516.	. 20 .	, 20 ·	,

	Colleges.	Foun.,	Fell.	Schol
	Christ Church			
14.	Trinity	1554 .	. 12 :	. 12
	St. John's			
	Jesus			
	Wadham			
18.	Pembroke	1620 .	. 14	. 30
	Worcester			
20,	Hertford	1740 .	. 12 .	. 4

	Foun	
1.	St. Alban's	1200
2.	St. Edmund's	1317
	St. Mary's	
4.	New Im	1391
5.	Magdalen	1480

(See Wood's Historia Univ. Oron., and Alhena Oxonienses : Ackerman's History of the University of Oxford; the articles in the first and third numbers of the Quarterly Journal of Education; and the Univer-

sity Calendar.)

Oxford; the north-west township in Butler county, Ohio, adjoining the state of Indiana. The land belongs in feesimple to the Miami university, which is here located. The township is six miles: square, and contains about 3000 inhab-Miami university was chartered in 1809; it went into operation in 1824. The number of instructors is 11; the number of alumni, 51; the number of studems, 82. Its library consists of 1000 volumes, and the students' libraries have 1200 volumes. Commencement is on the last Wednesday in September. The anrural revenue of the institution is more than \$4000, and the funds are rapidly increas-The situation is represented as delightfully pleasant and healthy.

Oxford Chronicae. (See Arundelian

Marbles.)

Oxford, Lord. (See Harley.) Oxides. (See Oxygen.) Oxus. (Sec Gihon.)

OXYGEN GAS was discovered by doctor Priestley in 1774, and by Scheele in 1775, without previous knowledge of Priestley's discovery. It received the names of free uir, dephlogisticated air, pure air, and vital air, from its property of supporting combustion and animal life-terms changed, by the inventors of the new * nomenclature, to oxygen gas, from its property of giving acidity to compounds; in which it predominates (35%, acid, and yerrodut, to produce). Oxygen denotes its gravitating matter, or substance, when not in the gaseous state; oxygen gas, is the name given to it in its elastic form. Oxygen is the most extensively diffused of material substances. In the state of gas,

it forms one fifth of the atmosphere; it is, also, the principal component part of water, forming eight ninths of it by weight. It exists in acids, in the alkalies, and earths, and, consequently, in their saline compounds. It is combined with metals; is found in numerous forms of combination in mineral substances, and is an abundant ingredient in all vegetable and animal matters. It is also the most energetic, in its chemical agencies, of all the elements of matter; and the history of its properties and combinations forms the most important subject in chemistry. Oxygen gas no where exists pure and uncombined; hence certain processes are required to obtain it in an insulated form. These consist, chiefly, in applying heat to some of its compounds, in which it is retained by a weak attraction. The substances commonly employed for the purpose, are the peroxide of manganese and the chlorate of potash. It may be procured from the former in two ways; either by heating it to redness in a goubarrel or iron retort, or by putting it into a flask, with half its singlet of concentrated sulphuric acipr and heating the mixture by means c.ra lamp. To obtain it from the manganese, it is only necessary to heat it to a full red heat, in an iron retort, The gas obtained by the first process is the purest; that by the latter is liable to contain small quantities of earbonic acid and hydrogen, but it is sufficiently good for ordinary purposes. Oxygen gas is colorless, inodorous and tasteless, and is rather heavier thun common air, its specific gravity being 1.111. It is absorbed by water very sparingly, 100 cubic inches of water, freed from air by boiling, absorbing about 3.5 cubic inchest under a common atmospheric temperature and pressure. Its most striking property is that of exciting and supporting combustion. A candle, or wax taper, freshly extinguished, is re-lighted on being immersed in a bottle of this gas. A partially-kindled piece of charcoal, on being introduced into it, also inflames with great rapidity and brilliancy. But the most interesting combustion, in this gas, is that of iron wire, or a watch spring, which only require to have their temperapiece of sulphur-match attached to them at the extremity, in order to be kindled into the most vivid and intense combustion, burning with sparks and scintillations, until pieces many inches in length · are consumed; and this in a jar of the gas not holding above three pints or a quart. Phosphorus, on being previously lighted-

in a pendent spoon, and lowered into a jar of oxygen gas, burns with the evolution of a light so intense as scarcely to bear being looked upon with the naked During the burning, in each of eve. these instances, the oxygen is consumed; and the products of the combustion, except in the case of the iron, are substances possessed of acid properties. Oxygen gas is equally powerful in sustaining animal. life by respiration. It an animal be confined in a given quartity of it, it will live four or five times longer than a similar animal will do in the same volume of atmospheric air. If, again, an animal be confined in a gas which cannot afford oxygen to it, it immediately dies. It is found that a quantity of oxygen gas always disappears, or is consumed, during respiration, and is indispensable to the continuance of life; and atmospheric air, or any gas, sustains life only from the oxygen it contains, and is capable of affording to the blood. Pure exygen gas, however, is not well adapted to animal existence. If an animal be confined in a given quantity of it, its respiration becomes hurried and laborious before the whole of the oxygen is consumed; and in dies even though so much oxygen is present that another unimal, of the same species, introduced into the residual air, will live. From whence it appears, that pure oxygen proves too highly stimulating for minul life. As mixed in our atmosphere, it is precisely adapted to the support of animal existence. The oxygen forms only one fifth of its weight, and is diluted with a large volume of another gas, of an opposite or negative quality. (See Nitrogen.) Oxygen gas has been administered, with good effects, in diseases of the thoras, in paralysis, general debility, &c. A remarkable case was that of a large dog, that had been, for several hours, completely drowned, and yet, in consequence of air injection of this gas into his lungs, was perfectly restored to life and all his functions in a very short time. Oxygen has a very powerful attraction for most of the simple bodies, and there is not one of them with which it may not be made to The act of combining with. combine, ture excited by the previous burning of a * oxygen is called oxidation, and the hodies, after having united with it, are said to be oxidized. The compounds, so formed,? are divided, by chemists, into acids and oxides. The first division includes those compounds which possess the general properties of uckls, and the second coniprehends those which not only want that character, but many of which are highly · . . .

alkaline, and yield salts by uniting with acids. The phenomena of oxidation are very variable. It is sometimes produced with great rapidity, and with the evolution of heat and light, as in the case of the iron wire above alluded to; on other occasions it takes place slowly, and without any appearance of heat or light, as is exemplified by the rusting of iron when exposed to a moist atmosphere. All inflammable or combustible substances derive their power of burning in the open air from their affinity for oxygen. The changes experienced by burning bodies are no less remarkable, than the alteration which appears in the oxygen in which they are burned. While the oxygen loses its power of supporting combustion, the inflammable substance lays aside its combustibility, becoming an oxidized body, and incapable of being burned again, even in pine oxygen. It has also acquired an addition to its weight. It is an error to suppose that bodies lose any thing while they burn. The materials of our fires do, indeed, disappear; but when, by means of a suitable apparatus, we detain the products of the combustion, it is found that they weigh more than the inflammable matter that has been burned; and the increase in weight is exactly equal to the quantity of oxygen which has disappeared during the process. For many years before the discovery of oxygen gas, all combestible bodies were supposed to contain a certain principle, which was called phlogiston, to the presence of which was ascribed their combustibility. It was supposed that when a body burns, phlogiston escapes from it, and that, when the body, has lost phlogiston, it ceases to be combustible, and is then a dephlogisticated or

incombustible substance. A metallic oxide was consequently regarded as a simple substance, and the metal itself as a compound of its oxide with phlogiston. The heat and light which accompany combustion, were attributed to the rapidity with which phlo-giston is evolved during the process. The discovery of oxygen, and the experiments of Lavoisier, overthrew this doctrine. On burning phosphorus in a jar of oxygen, he observed that a considerable quantity. of the gas disappeared, that the phosphorus gained in weight, and that the increase of the latter exactly corresponded to the loss of the former. That oxygen is really present in the oxidized body, he proved by a very decisive experiment. Some liquid mercury was confined in a vessel of oxygen gas, and exposed to a temperature sufficient for causing its oxidation. The oxide of mercury, so produced, was put into a small retort, and heated to red- .. ness, when it was re-converted into oxygen gas and fluid mercury, the quantity of the oxygen being exactly equal to what had combined with mercury in the first

partial the operation.

OYF., AND TERMIFER (French, to hear and determine), in English law, is a court held by virtue of the king's commission, to hear and determine all treasons, felonics and misdemeanors. This commission is usually directed to two of the judges of the circuit, and several gentlemen of the county; but the judges only are of the quorum, so that the rest cannot net without them. (4 Black, 269.) (See Assizes.)

O YES (corrupted from the French oger, hear ye) is an expression used by the crier of a court, in order to enjoin silence when any proclamation is made.

OYSTER. (See Appendix, end of this vol.)

Ρ.

P; the sixteenth letter and twelfth consonant in the English alphabet. It is one of the mutes and labials, and represents a sound produced by closely compressing the lips till the breath is collected, and then letting it issue. (For the similarity and mutual interchange of b and p, see B.) Palso interchanges in many languages with other letters, as in Polypfor Molly. The dialocts of Upper Germany in general prefer the p, those of Lower Germany the b;

. . . (

and Ihre declares all Swedish words beginning with a p to be of foreign origin. The II of the Greeks signified 80; in low-Latin, Psignified, according to Ugution, 100:

P similem cum C numerum monstratur habete i,

seconding to Baronius, 7. In music, p signifies piano (softly). S. P. S. P. is an abbreviation for Saint Peter and Saint. Paul, as on the papal seals. On medals, P stands for various names of persons. places and qualitics, as pater, populas; pius, perpetaus, pontifex, proconsul, &c.; P. P., pater patrice; S. P. Q. R., senaus populasque Romanus; P. M., pontifex maximus; C. P., Constantinopolis. It is a curious circumstance, that the Romans gave to their P the same form which the Greeks had given to their Rho. pp is used in German as a sign for &c. The Hebrews had no p, and used the ph instead. The Arabiaus have no p. On visiting cards, p. p. c., p. f. s. a., or p. d. a., are abbrevistions for pour prendre cange, pour faire ses adieus, or pour dire adieu, and signify the taking of leave. (See Abbreviations.)

PACA, William, one of the signers of the declaration of American independence, was born October 31, 1740, and was the second son of a gentleman of large estate, who resided in Hartford county, Maryland. After receiving his degree of bachelor of arts at the college of Philadelphia, in 1759, he studied law, and, when admitted to the bat, established himself at Annapolis. In 1771, he was elected a representative of the county in the legislature, and supported the cause of the people against the proprietary government of the province. He was a member of the first national congress of 1774. He was successively re-elected to the same station until 1778, when he retired, and, in the same year, was appointed chief-justice of the supreme court of his state. In 1780, congress appointed him chief judge of the court of appeals in prize and admiralty cases. In 1782, he was chosen governor of his state. At the close of the year, he retired to private life. In 1786, he was again raised to the chief magistracy, and continued in it for a year. On the organization of the federal government, in 1789, he was appointed, by president Washington, judge of the district court of the U. States for Maryland. In that office he died, in 1799, in the sixtieth year of his age. Judge Paca was a man of talent and cultivated mind. of graceful address and attractive manners. of moral worth and political integrity.

PACA, in zoöl. (See Appendix to this vol.)
PACHA, or PASHAW; the military governor of a Turkish province. The most distinguished have three horse-tails carried before them; the inferior, two. The power of a pacha is very great. He is, however, appointed and removed at the will of the sultan, is obliged to serve when called on in the wars of his master, and to pay over a certain portion of the revenue of his province into the imperial treasury. The provincial administration is entirely in his hands.

PACTICATOR. The attitude of a person who makes peace, or performs any other act of grace, consisted, among the aucients, in the horizontal extension of the right arm, the hand being quite open.—No title was so much coveted by Napolcon as that of pacificateur, at the beginning of his power; hence it appears so often on the early medals commenorating his exploits. Alexander of Russia, too, was highly desirous of the same character. Nothing flattered him more than the praise of having given peace to the world.

Pacific Ocean; the great mass of waters extending from Beering's straits to the Antarctic circle, a distance of 3200 · leagues, and from Asia and New Holland to America. It is separated from the Atlautic and Antarctic occaus only by imaginary lines. The Andes and Rocky. mountains of the western coast of America, and a series of mountainous ranges near the eastern coast of Asia and New Holland, nearly surround this vast basin. Its extreme breadth a little north of the equator is 4550 leagues; between South America and New Holland (lat. 30° S.) it is 2070 leagues. (See Ocean.) It contains an infinite number of isles scattered ever its surface, more particularly between lat. 30° N. and 50° S., to which modern geographers have given the general appellation of Oceanica. (q. v.) It was at first called the South sea, by the European navigators, who cutered it from the north. Magellan gave it the mime of Pacific, on account of the prevalence of calms which he experienced in it; but it by no means deserves this name, as it is remarkable for the fury of its storms and the agitation of its waters. The trade-winds, which constantly blow between the tropics, render the pa-sage front the western coast of America to Asia very short; but the return is proportionately difficult. (See Winds.) The Portuguese were the first Europeans who entered the Pacific, which they did from the east. Balboa, in 1513. discovered it from the summit of the mountains which traverse the istimus of Darien. Magellan sailed across it from east to west in 1521. Drake, Tusman. Beering, Anson, Byron, Bougainville, Cook, Vanconver, Laperouse, and others. traversed it in different directions, in the seventeenth and eighteenth continues. D'Entrecasteaux, Krusenstern, Kotzebuc, Beechey, &c., have visited it more recently.—See Burney's Chronological History of Discoveries is the South Sen (5 vols., 4to., 1803—1817.) (See, also, North Polar Expeditions.)

Pacrotus; a river of Lydia, celebrated (the learned) among the Italians. for its golden sand. (See Midas.) After principal university building, it polarge flowing by Sardis, it emptied into the degli studi, is adorned with portraits of Hermus.

PADANG. (See Sumatra.)

Padenborn, formerly an imperial bishopric, in the circle of Westphalia, was attached, in 1802, to Prussia, in 1806 to the kingdom of Westphalia; on the dissolution of which, it was restored to Prussia. The capital, of the same name, with 6700 inhabitants, is situated at the sources of the Pader. The university of Paderborn was suppressed in 1819. There is still a gymnasium here, with a seminary for priests, five monasteries, and a cathedral. Lat. 51° 43' N.; lon. 8° 43' E.

PADISHAH; a title assumed by the Turkish sultan, derived from pad (protector or throne), and shah (king, prince). The Ottoman Porte formerly applied this name only to the king of France, calling the other European sovereigns kral; but it has since been applied to some of the

other leading princes of Europe.

PADUA (in Italian Padova, anciently Patavium); an old and strong city of the north of Italy, in a province of the same name, in the Austrian government of Venice. It is connected with the Brenta by a canal. Population, 46,600; lar. 45° 24' N.; lon. 11° 52' E. Among the ninety-six churches is the cathedral, which is one of the richest in Italy. The sacristy contains a portrait of Petrarch, who held a canonry in it, and bequeathed it a part of his library. The church of St. Justina is esteemed one of the most beautiful in Upper Italy. In front of it is the public square prato della ralle, anciently campus Martius, adorned with statues of cele-brated Paduans. 'The Franciscum church chiesa del santo contains many splendid monuments and valuable cariosities. In is front of it stands the equestrian statue erected by the republic of Venice to her general Gattamelata. The Episcopal seminary, restored by cardinal Barbarigo, an excellent institution for the education of 100 young clergymen, contains a celebrated printing establishment, to which belongs a collection of Latin, Greek and Oriental manuscripts. The celebrated university was founded by the emperor Frederic II, who, in 1222, transferred the university of Bologus to Padua. The medical faculty is the most highly esteemed. The number of students was formerly several thousand, from all the countries of Europe; at present it is about 400 in all departments. The celebrity of this institution, longing to the natural family ranuacular-property for the celebrity of this institution, longing to the natural family ranuacular-property for the celebrity of th procured for the city the epithet la dotta cea, distinguished for the size and mag-"THE SECTION

The the most eminent professors. It has twelve colleges, an observatory, a botanical garden, an anatomical theatre, &c. There is also in Padua a branch of the royal institute of science and art, a society of science and agriculture, &c. Among the buildings, the town-house (palazzo della ragione), containing a bust of Livy (q. v.), who was a native of Padna; the palazzo della podestà, with a public library ; the theatre, &c., are particularly worthy of mention. The grave of the Trojan hero Antenor, who, according to Virgil. was the founder of Padua, is still shown here. After the fall of the Roman empire, Padua fell into the hands of the Lombards, from whom it was taken by Charlemagne. Under his successors, it came under the dominion of Ezzelin, afterwards received a republican government, but, in the fourteenth century, came under the dominion of the powerful family of Carrara, and was conquered by Venice in 1405. Commerce is chiefly in the hands of the Jews, who live in a separate quarter of the city. The woollen and silk manufactures are considerable. In summer the city is thronged by the rich from the neighborhood, particularly at the timeof the fair in June. The territory of Padua (il Padovano) is one of the most fertile and beautiful countries in Europe, and contains 300,000 inhabitants. On the abolition of the republic of Venice, the town and territory fell to Austria; were afterwards ceded to Napoleon; but, in 1814, were restored to Austria, and now form a part of the Lombardo-Venetian kim soni.

result, or Pron (natar, natur); a surname of the healing power, particularly of Apollo. The etymology and signification of this epithet are differently explained by different critics. In the hytms to Apollo, the phrase lo Pæm was frequently repeated, and hence they were also called parans. They were sung in times of sickness, and on other occasions, when it was desirable to propitiate the favor of the god. Hymns to other deities, or sougs in praise of heroes, were at a later period likewise called pecans. A peen was sung, previous to buttle, in honor of Mars, and after a victory, in praise of Apollo.

PEDOBAPTISTS. (See Baptists.).

nificence of the flowers. horbaceous, or very rarely shrubby, having opera, Circe, which was well received; percamial, tuberous roots, and large leaves, which are more or less divided. The flowers are solitary, and of a white or Seventeen species are purplish color. Seventeen species are known, of which one inhabits the North-West Coast of America, and the others the temperate parts of the Eastern continent. Several are cultivated in gardens, where they are very conspicuous, especially when the flowers are doubled.—The common perony (P. officinalis) grows from ten to twenty inches in height. leaves are bi or triternate, and the flowers are disposed at the extremity of the brauches, are very large, and ordinarily of a fine red color. The double variety, which is now so common every where, when introduced at Antwerp, about the end of the sixteenth century, sold for twelve crowns a root. This plant is a native of the mountains of the south of France, Spain and Siberia. It was celebrated among the ancients, who attributed to it various marvellous properties, but has now lost all its reputation.—The tree preony (P. moutan), in our climate, is not usually more than three or four feet high, but, in China, its native country, is said to attain the elevation of ten feet, or even a much greater. It was discovered in the mountains of Honan about the year 400, but did not attract the attention of the Chinese till two or three centuries after. When once known, its culture spread with amazing rapidity, and large sums of money were sperificed to procure fine varieties. For more than a thousand years, it has been generally cultivated by the Chinese, who plant it in the open air, but take unwearied pains during its greenth, protecting it from the dust, high, judds and heavy raius, by means of tents, and dispensing the beat and light of the sun at their pleasure. They have varieties of all colors-white, yellow, red, purple, violet, blue, and even black. The Chinese name is mou-tan. The most common variety with us has superb flowers, of a clear red or rose color, and from five to seven inches in diameter, which, besides, diffuse a very agreeable odor. It is hardy enough to bear our winters, but does not. tlower in such perfection as when protected. A rich light soil is best adapted to it; and ripened cuttings, planted in a shady place, will take root freely.

PARR, Foruando, a celebrated opera composer, born at Parma in 1774, was a pupil of the Neapolitan Chiretti, at the conservatorio della pietà. At the age of

The species are ten years, he produced at Venice his first and he then visited the different Italian cities. The duke of Parma, his godfather, granted him a pension, and, on account ... of the troubles produced by the war, permitted him, in 1795, to go to Vienna, where, in 1798, he was made composer to the national theatre, while his wife was prima donna to the Italian opera. His reputation was extended particularly by his Camilla, in 1799. In 1802, he settled at Dresden, as chapel-master, and remained there three years, his wife being there. also prima donna. Napoleon engaged them, after the battle of Jena, to follow him to Warsaw; and after the peace of Tilsit, they entered his service. Paer's compositions are rich in melody, lively and striking. He may be considered as the precursor of Rossini. (q. v.) The bost of his numerous operas are Sorgino; Camilla; Griselda; Leonora; Achille; I Fuorusciti; Sofonisbe; Dido; Agnese; Olinde e Sofronia. , He has also composed many romanzi, canzoni and duets, with accompaniments on the piano.

Pastum (called by the Greeks Posidonia); an ancient Greek, city of Lucania, Lower Italy, lying in a plain at the foot of mount Alburnus, on the Simus Pastanus, or gulf of Salerno. It is celebrated by the Latin poets for the fragrance of its twice-blowing roses, and its mild and balmy air. Nothing now remains of it but some fragments of its walls, of two temples of Doric architecture, and of a forum. The city is thought to have been founded by a Greek colony from Sybaris (q. v.), 510 B.C. It was destroyed by the Saraceus in the ninth century. The coins of Prestum, as well as its ruins, show it to have once enjoyed great prosperity. The ruins were discovered in the middle of the last century.

PETUS. (See Arria.)

PAEZ, Jose Antonio, formerly general in the Colombian service, at present president of Venezuela (q. v.), was born at Aragua, in Venezuela. His parents were of Indian extraction, and in humble circuristances; and the early life of Pacz was passed in the simple and hardy occupations of a llanero (q. v.), tending cattle, taining wild horses, hunting wild bulls, Naturally of a daring, impetuous &c. temper, and endued with uncommoninative sagacity, Paez early acquired a great ascendency over the wild berdsmen of his province, by exhibiting those traits of hardihood and dexterity, which, in a rude pate of society, confer superiority on

their possessor. When the revolution of Caracas broke out, in 1816, he declared himself in favor of independence; and his . influence with the llaneros enabled him' to gather round him a body of cavalry, which soon became the terror of the Spaniards. Bolivar soon gave him a command in the regular army, and employed him in duties suited to his own character, and that of his half-disciplined troops, who were of great service in per-tisan warthre. In 1813 and 1814, general Pacz rendered important services, and, in the succeeding years, distinguished himself on almost every occasion. Thus, in 1817, we find him beating, near, San Fernando de Apure, a large royalist force, under Morillo; and, not long after, he took possession of Calabozo. At the battle of Ortiz (1818), he made several successful charges, and was directed by Bolivar to cover the retreat, which he did with great skill. Throughout Morillo's sanguinary campaigns; Paez continually hung upon his rear, or attacked his van, always present where any blow could be struck. After the refusal of the former to give quarter, the latter never spared the life of a prisoner; and it, as in the plains of Cojedos, his cavalry were cut up, he retired to the plains of Apure, and soon reappeared at the head of a new body of South American Cossacks. In the battle of Carabobo (1821), which established his milicury reputation, Paez had charge of the leading division, which it was necessary should penetrate a narrow defile, the heights commanding which were covered with the royalist artillery. He dushed forward with such impetuosity, at the head of his troops, that he drove the Spaniards from their position, and decided the battle. His services in this victory, which may be considered as securing the independence of Colombia, were considered of such importance, that Bolivar offered to appoint him general-in-chief of thearmy on the field of battle. On the organization of the government which ensued, Paez was elected · a member of the senate for the department of Venezuela, and appointed commandantgeneral of that department. (See Colombia.) Although without early education, yet, after the trauquil period which followed the expulsion of the Spaniards from Venezuela, he made rapid progress . in those elements of knowledge in which he was most deficient. Disaffection to : the confederacy had for several years prevailed in Venezuela, which was carried to its height by an order of the executive,

tia of all citizens between sixteen and fifty years of age. Complaints being made to the house of representatives of some measures taken by general Paez (1826) to enforce the execution of the decree, that body rather hastily determined to impeach him for official misconduct at the bar of the senate. Paez, however, or his creatures, instigated the Valencians to acts of turnult, in consequence of his suspension, and then accepted the command, which was conferred on him by the acclainations of the multitude. To secure the support of the rest of Venezuela, his partisans now openly declared for the views of those disaffected to the constitution; and thismeasure, together with the dread of the soldiery, who were wholly in the interest of Paez, effected the desired purpose. Venezuela was thus in a state of revolt; other parts of the republic were in the same situation, and affairs remained in this unsettled state till the return of Bolivar from Peru. On his arrival, every trace of insurrection disappeared, and, in January, 1827, he had restored tranquillity by proclaiming a general anmosty, promising to convoke a great national convention to settle all questions in dispute, and recognising general Paez as commander in Venezuela. The final result of these measures we have described in the articles Colombia, and Venezuela. In September 1829, Venezuela declared itself independent, and general Pacz was soon after chosen president of the new republic. From the account we have here given of the president of Venezuela, he would appear to be more of a soldier than a statesmau. The events in 'Venezuela' have subjected him to the suspicions of having been secretly at the bottom of the troubles there, and of having privately fomented the disaffection which prevailed, for his own ambitious purposes. Time only will show his true character.

him general-in-clief of the army on the field of battle. On the organization of the government which ensued, Paez was elected a member of the senute for the department of Venezuela, and appointed commandant-general of that department. (See Colombia.) Although without early education, yet, after the tranquil period which followed the expulsion of the Spaniards from Venezuela, he made rapid progress in those elements of knowledge in which he was most deficient. Disaffection to the confederacy had for several years prevailed in Venezuela, which was carried to its height by an order of the executive, requiring a general enlistment in the mili-

a letter which she wrote to him when at Vienna, in 1828, shd says, "Take care and do your atmost that your name may be immortal." In his eighth year, he had written a sounts, which, however, along with many other juvenile productions, he tately destroyed. He often played in churches and in private musical parties. His first public appearance was in the great theatre at Genoa, where he played . the French air La Carmagnole with his own variations. He was then in his ninth year, and was rewarded with great applause. His father, intending to place him under the tuition of the well-known musician Rolla, in Parma, carried him to his house. Rolla happened to be ill, and lying in bed: the party were shown into the antechamber, where young Paganini played one of the composer's concertos at eight. Rolla started up, and could scarcely be prevailed upon to believe that he had heard a little boy: "For God's sake," said he, "go to Paer: your time would be lost with me: I can do nothing for you." They went accordingly to Paer, who placed him under Ghiretti, his own tracher, from Naples, whose instruction in counterpoint he enjoyed for six months. During this period he wrote twenty-four tugues for four hands, with pen, ink and paper alone, and without an instrument, which his master did not allow him. Paer also gave him compositions to work out, which he himself revised. His father now took him to Milan, Bologua, Florence, Pisa, Leghorn, and other cities of Upper and Central Italy, where he obtained much money by exhibiting him. Paganini, having arrived at his fifteenth year, wished to get rid of his father's severe discipline and spare diet. He there, fore went to Liteca, where a great inusical festival was given. His performance as a solo player succeeded here so well, that he resolved to travél on his own account, and the attachment which he formed for a wandering life led him to decline many mundsome offers to establish himself as 3 concerto player, or as director of an or-chestra. Though he remained for some time at the court of Lucca, he soon resumed his itinerant habits, Genoa being usually his head-quarters. He soon amassed about 20,000 francs, half of which he proposed to give to his parents; but his father insisted upon the whole, and went so far as to threaten his son with instant death if he refused, so, that Paganini gave up the greater part of the sum. He became the idol of the Italians. The pope bestowed upon him the order of the

mile Asily ? golden spur. Paganini; however, liore all these honors with singular modesty, and strove unremittedly for greater excellence. Lafont, the Parisian violinist, challenged him to a public contest: the offer was accepted, and he surpassed his antagonist entirely. The same passages, which Lafont had performed in single stops, he executed in double; rapid successions which the one had achieved in double ordinary sounds, the other produced in the most perfect manner in double harmonic sounds: where the one had accombanied. his melodies with chords, the other superadded to the chords the most rapid and distinct pizzicates with the left hand; where Lafont had astonished the audience with his octaves and tenths. Paganini amazed them still more by stretching, with the same case, fourteenths and sixteenths. He was declared the victor. In 1828, he went to Vienna, and received great applause. His striking superiority led to the supposition that the means of its attainment must have been much out of the ordinary course, and an idle story was circulated that he had attained his skill by constant practice in a dongeon; and his strange looks and haggard appearance tended to confirm the report. The causes assigned for his supposed confinement were various. One was that he had stabled or poisoned his wife. The story became universally believed, although totally unfounded. Paganini was never fully aware of the light in which he was regarded until the theatrical gazette at Vienna dropped some broad hints as to the rumored misdeeds. Upon this, he immediately published in the papers a statement in German and in Italian, declaring that he never had offended against the laws, and referring to the magistracies of the different states in which he had lived. His command of the back-string of the violin has always been an especial theme of wonder. (For the mode in which he acquired it, and for other particulars relating to him, see number 14 of the Foreign Quarterly Review for April, 1831, and the works there referred to.) He lately visited Berlin, Paris, Loudon, and other great cities of Europe; and all who have heard him agree in declaring. that the violin becomes, in his hand, a totally different instrument from what they had ever supposed it, and most agree in considering his performance perfection; He proposes to settle at Florence. His son, now about four years old, traveis with him, and is the object of his enthusiastic affection. ic anections

PAGANS; the worshippers of many gods, the heathen, who were so called by the Christians, because, when Constantine and his successors forbade the worship of the heathen deities in the cities, its adherents refired to the villages (pagi, hence pagani, countrymen), where they could practise their ceremonies in socrecy and safety. In the middle ages, this name was given , to all who were not Jews or Christians, theirs being considered the only true religion and divine revelations; but, in more · modern times, Mohammedans, who worwhip the one supreme God of the Jows and Christians, are not called pagans. The idea of heatherism is of early origin. Moses used every precaution to prevent an intercourse between the Hebrews and heathen nations, prescribed the renunciation of idolatry as a requisite to citizenship in the Hebrew state, and forbade any league with the Ammonites, Moubites, A.c. When the kings relaxed in the observance of these regulations, the prophets raised their voice against the defection. The distinction between pagans and nonpagens, so far as claims to a revelation are concerned, is very slight, since there are many heathenish people who have traditions of revelations made to them. We also find in some religious of paganism (for example, with Zoroaster, Plato and Socrates) pure and elevated notions, and precepts of morality, which would not displace even Christianity. Paganism has likewise her moral heroes, as well as Judaism and Christianity. And although St. Augustine doclared that the virtues of the beatheus were but splendid vices, yet this assection is by no means borne out by facts. The true point of distinction is therefore to be placed in the recognition or denial of one, universal, perfect Being, that is, in the reception of monotheism or polytheism. The apostle Paul speaks (Rom. i, 23) of a law of God written on the hearts of the gentiles, or pagans, and declares that pagans who live by this divine law in their consciences, are a law unto themselves; and that, to every man who does good, God will render "glory, honor and peace, to the Jew first, but also to the gentile, for there is no respect of persons with God." (Rom. ii, 10, 15.) "Clement of Alexandria, and many of the fathers, were of opinion that, as God had given prophets to the Jews, so he had raised up great men among the heathen. and thus rendered both capable of arriving at the enjoyment of divine happiness. These views, however, met with strong and embellished with great splendor, opposition. Augustine, although he ac. They are generally in this form, of a cross,

knowledged that the virtues of a Brutus. Decius and Regulus were subjects of admiration, and proper models of imitation, yet maintained the principle that all the noble and good actions of the pagans were done in the service of the devil, and from vain glory. His views obtained such an ascendency, that it came to be a generally received opinion that the hope of God's grace and eternal happiness depended on, a belief in the doctrines of the church. Jeromo adopted an intermediate principle, attributing to the heathers a willingness to receive the doctrines of the true church, should they become known to them. If this fides implicita, as it is called, be any thing real, it can only be a desire and endeavor to know the truth and to act secordingly. Others have maintained the action of divine grace on the souls of heathens, independent of all instruction and knowledge on their part. The influence which the writings of Augustine exercised at the time of the reformation, and on the reformers, led to the reception of the dogare of the danmation of the pagars, which acquired a new developement from tho doctring of predestination. Marmortel's Beliseing was condemned by the Serbore, e. because it professed a belief in the salvation of the pagare .- See Momer's allgemeine kritische Geschiehte der Religion : Schlegel, Veler den Grist der Religiosität aller Zeiten vod Folker (2 vols., Hanover, 1819); Constant, Sar la Religion (Paris, 1821). It is estimated that the number of polytheists is about 400,000,000; that it monotheists, 362,000,000.

Page (from zos, child); a youth retoined a the family of a prince or grew per solutee, as an honorable servant, to attend int disits of ceremony, carry messages, there up trains, robes, &c., and, at the stife time, to have a genteel education. (ser Chivalry.)

(See , Inglesca, Marquis.)

PAGLIAGO, OF PAGLIACCIO; the name of a comic mask in the Neapolitan come-The word signifies cut straw, bedv. cause this is what the poor fellow lies on. The German term Pajazzo, for the Merry Andrew in the circus, is a corruption of this word.

.Pagona; the temples of the Hindoos. and other heather nations of Southern Asia. They are built of wood and stone, . on an open place, which is adorned with obelisks, columns, and other architectural works. They are of great size and height,

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, the four ends of which are of equal length, with a lotty, tower-like roof, divided into several compartments. The most remarkable pagodas are those of Benares, Siam, Pegu. and particularly that of Juggerman (q. v.), in Orissa. In the interior, of these buildings, besides alters and statues of the gods, there are many curiosi-The statues, which are likewise called pagadas, and which are often numerous, are usually rude images of baked earth, richly gilt, but without any kind of expression; sometimes clothed, and sometimes nude; standing or sitting with the legs crossed, and often of a colossal size. -Small figures with movable heads,

PAINE, Robert Treat, a signer of the Declaration of Independence, was born in Boston, in 1731. His father had been for pursuits. When fourteen years old, he became a student in Harvard college, and, after leaving it, kept, for a period, a public school, the fortune of his father having . been greatly reduced. He contributed, in this way, to the support of his parents, and likewise made a voyage to Europe, with the view of acquiring ampler means for their maintenance. In 1755, he acted as chaplain to the troops of the provinces at the northward, having previously studied theology. Not long afterwards, however, he devoted his attention to the law, . and, during the prosecution of his studies, again kept a school for his support. On being admitted to the bar, he established hinself at Taunton, in the county of tol, where he resided for many years, and 1762, he was chosen a delegate from town to the convention called by the that ing men of Boston, in consequence of the abrupt dissolution of the general court by governor Barnard. In 1770, he conducted the prosecution, on the part of the crown, in the absence of the attorney-general, in the celebrated trial of captain Presion and his men, for the part which they acted in . the well-known Boston massacre. The way in which he discharged that dury gave him great reputation. In 1773, he was elected a representative to the general assembly from Taunton. · He was afterwards chosen a member of the continental congress, which met at Philadelphia in 1774. The following year, he was re-elected, and rendered important services 🔁 as chairman of the committee named for.

the purpose of introducing the manufacture of saltpetre, which was then but imperfectly understood, while the colonies were suffering for the want of gunpowder; also as a member of a committee for the encouragement of the manufacture of cannon and other iniplements of war. In 1776, 1777 and 1778, he was also in congress, and, in the intervals of their sessions, filled several important offices in Massachusetts. In 1780, he was sent to . the convention which met in order to deliberate respecting a constitution for that commonwealth, and of the committee which framed the instrument he was a conspicuous member. Under the governwhich are brought from the East, are also / ment which was organized, he was ap-called pagodas. / pointed attorney-general. This office he tield until 1790, when he was raised to the bench of the supreme court, where he continued to sit until 1804. He was then seventy-three years old. He died May some time paster of a church in Wey- seventy-three years old. He died May mouth, near Boston; but, in consequence 11, 1814, in the eighty-fifth year of his of ill health, he had removed to the latter age. As a lawyer, Mr. Paine acquired a place, where he engaged in mercantile, high rank: his legal attainments were extensive, and his strict fidelity in discharging his duties as attorney-general gave him the reputation of unnecessary severity. His judicial functions he discharged ably, and with the utmost impartiality. To literary and religious institutions he rendered important services. He was an excellent scholar, and, in quickness of apprehension. liveliness of imagination, and general intelligence, he was inferior to few. His memory was exceedingly retentive. His conversation was distinguished for its sprightliness; and if he was sometimes fond of indulging in raillery, he evinced no ill-humor at being the subject of it in his turn. He was a founder of the American academy, established in Massachuseus in 1780, and continued his services to it until his death. The degree of doctor of laws was conferred on him by Harvard college.

PAINE, Thomas; a celebrated political and deistical writer, born in 1737, at Thetford, in Norfolk, where his father, a Quaker, was a staymaker. He received his education at a grammar school in his native place, but affained to little beyond the rudiments of the Latin language. He seems afterwards to have paid great attention to arithmetic, and to have obtained some knowledge of the mathematics. In early life, he followed the business of his father, and afterwards became a grocer and exciseman at Lewes, in Sussex, but was dismissed for keeping a tobacconist shop, which was incompatible with his duties. The abilities which he displayed in a paniphlet written to show the propriety of

advancing the salaries of excisemen, struck one of the commissioners, who gave him a letter of introduction to doctor Franklin, then in London. The latter recommended him to go to America. He took flus advice, and, reaching Philadelphia in 1774, in the following January. became editor of the Pennsylvania Magazine, which he conducted with considerable ability. Hostilities having commenced between the mother country and the colonies, he composed his celebrated pamphlet, entitled Common Sense, which was written with great vigor. The object of this tract was to recommend the separation of the colonies from Great Britain. For this production, the legislature of Pennsylvania voted him £500. He also received the degree of M. A. from the university of the same province, and was chosen a member of the American philo-sophical society. To these rewards was added the office of clerk to the committee for foreign affairs, which, although a confidential situation, did not justify him in assuming the title of "late secretary for foreign affairs," which he did in the titlepage of the Rights of Man. While in this office, he published a series of political appeals, which he denominated the Crisis. He was obliged to resign his -ceretariship in 1779, owing to his having divulged some official secrets in a controversy with Silas Deane, whom he accused of a fraudulent attempt to profit by his agency, in conveying the secret supplies of stores from France. The next year, he obtained the appointment of clerk to the assembly of Pennsylvania, and, in 1785, on the rejection of a motion to appoint him historiographer to the U. States, received from congress a donation of \$3000. He also received 500 acres of land from the state of New York. In 1787, he embarked for France, and, after visiting Paris, went to England, with a view to the prosecution of a project relative to the erection of an iron bridge, of his own invention. This scheme involved him in pecuniary difficulties, and, in the course of the following year, he was arrested for debt, but was bailed by some American merchants. On the appearance of Burke's Reflections on the French Revolution, he wrote the first part of his Rights of Man, in answer to that celebrated work. The second part was published early in 1792; and May 21, in that year, a proclamation was issued against wicked and seditious publications, of a complication of disorders, to which alluding to but not naming, the Rights of the fell a victim. June 8, 1809, in his several Man. On the same day, the attorney—enty-third year. Being refused interquent

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Paine as the author of that work. While the trial was pending, he was rhosen member of the national convention for the department of Calais; and, making his escape, he set off for France, and arrived there in September, 1792. On the trial of Louis XVI, he voted against the sentence of death, proposing his imprisonment during the war, and his banishment' afterwards. This conduct offended the Jacobins, and, towards the close of 1793, he was excluded from the convention, on the ground of his being a foreigner (though he had been naturalized); and, immediately after, he was arrested, and committed to the Luxembourg. Just before his confinement, he had finished the first part of his work against revelation, entitled the Age of Reason, being an Investigation of true and fabulous Theology; and, having contided it to the care of his friend Joel Barlow, it was published; by . which step be forfeited the countenance of the greater part of his American connexions. On the fall of Robespierre, he was released, and, in 1795, published, at Paris, the second part of his Age of Reason; and, in May, 1796, addressed to the council of five hundred a work entitled the Decline and Fall of the System of Finance in England, and also published his paraphlet entitled Agrarian Justice. Fearful of being captured by English cruisers, he remained in France till August, 1802, when he embarked for America, and reached Baltimore the following October. He had lost his first wife the year following his marriage, and, after a cohabitation of three years and a half, had separated from a second, by mutual consent, several years before. Thus situated, he obtained a female companion in the person of a madame de Bonneville, the wife of a French bookseller, who, with her two sons, accompanied him to America: but, whatever was the nature of this connexion (at the age of sixty-tive), which has been differently represented, the husband and children, with the wife, became his chief legatees. His subsequent life was by no means happy; for, although occupied in various mechanical speculations and other engrossing pursuits, and possessed of decent competence, his attacks upon religion had exceedingly nurrowed his circle of acquaintance; and his , habitual intemperance tended to the injury of his health, and the ultimate production general commenced a prosecution against in the ground of the society of Friends;

which favor he had requested before his of a poet. Why do we find so many pordeath, he was buried on his own farm. "The strong part taken by this extraordinary man in religion and politics has protion, that there exist few or no sources of unbiased information, either as to his abilities or character, except his writ-That he possessed much native vigor of intellect, is indisputable, and, coneentrated as it became by resolute exclusion of multitarious acquirement, and of even a moderate recourse to books, it assumed, in his writings, that piquancy, force and simplicity, which, of all qualities, secure the largest share of gen-eral attention in popular controversy. The political pumphlets, letters and addresses of Paine are numerous, and may be found in the collective chitions of his works. They are also enumerated at the end of his Life by Sherwin. (See his Life by Cheetham and Sherwin.)

PAINTER'S Come. (See Colic.)

PAINTING, in a technical sense, is the art which represents the appearance of natural objects on a plane surface by means of colors, so as to produce the appearance of relief. As a fine art, is highest object is the beautiful, exhibited in visible forms by colors. The noblest field of the painter is that in which he vies with the poet, embodying ideas, and represonting them to the spectator; but, as there are innumerable gradations in poetry, from the most elevated epic, or drama to the shortest song, the excellence of which may consist merely in giving effect to a single sentiment or situation, comic, touching &c., so pictures may present all varieties from the elevated productions of a Michel Augelo, in the Capella Sistina, to the image of a single dew-drop, a leaf, a cat in a Flemish piece. And just as taste may degenerate in respect to poetry, and prefer insipidity, bombast or talse glitter to true poetical beauty, so taste may degenerate, and has degenerated, in respect to painting; and a portrait, the greatest praise of which was that every single hair of the beard might be seen by a microscope, has been thought extremely "naturai," and valued more highly than the most poetical compositions. It is but lit-tle praise to say of a picture, in this sense, that it is natural. We have spoken of this subject in the article Copy, where the reader will find some observations on the necessity of genius even in copying.

traits appallingly like the original, so as to be recognised at first glauce, and which yet leave a disagreeable impression? The duced such extremes of praiso and execta- reason is that the painter copied with Chinese accuracy the form before him, but could not discover the spirit which animated the form, nor reproduce the original, breathing with life. The case is similar with other objects of the art. A plant, a flower, a tree, may be so repied as to give the form accurately, and yet be destiinte of the appearance of life. To produce this, it is necessary to have an eye for the soul of nature, to catch its breathing spirit. Still more necessary is the poetical spirit when the artist undertakes his noblest work—a historical painting. . A Parmissus or School of Athens by Raphael, a Last Judgment by Michel Augelo, au Olympus by Cornelius, is a poem; and we see also the near relationship of poetry and painting from the circumstance of the two arts being so ready to afford each other assistance. The painter furnishes ornaments and illustrations to the works of the poet, and the poet often interprets in verse the beautiful productions of the painter. The great difference between them is that the painter can express a state of things only during a single moment, whilst the poet can unfold his scenes at pleasure; but, on the other hand, the painter can show much in a moment, and therefore make a deep impression, whilst the poet can give only word by word. Hence, also, the effect of the representation of the drama is so great, because it unites, as it were, poetry and painting—the ear and the eye both receive at once. The art of painting is divided, according to its subjects, into representations of man, of the lower animals, and of inanimate nature. The first are generally called historical paintings, even if their subject is not taken from history, and include allegorical and mythological, as well as real historical representations. Even battle pieces, scenes! from common life, and portraits, have been classed under historical paintings. Historical painting is the noblest and most comprehensive of all branches of the art, because it embraces man, the head of the visible creation-man in all his relations. The historical painter therefore must study :: man in all his situations and relations, from the anatomy of his figure and the attitudes of the model to the most rapid and slightest expression of feeling and the ebullinature—of genius which can extract the tions of deep and violent passion. He essential, characteristic and distinguishing. must have technical skill, a proctised eye A painter must have the creative power and hand, and must understand how to

group his skilfully executed parts so as to produce a beautiful composition; and all this is insufficient without a poetic spirit, which can form a striking conception of a historical event, or create imaginary scenes of beauty. There is a remarkable passage in the works of the famous composer Muria von Weber. He speaks of the impression which a beautiful landscape makes upon him, a lovely or brilliant sunset, &c. Every thing, he says, presents itself to his soul in a musical form, in concords and discords. Whatever he perceives resolves itself into music, and thus becomes truly impressive to his soul. This is the case with every true artist. Speak of a noble idea to a sculptor, and involuntarily it will crystallize in a plastic form in his mind. Read a stirring passage of history or an interesting poem to a painter, and the whole will pass in pictures before his imagination. According to the branch of the art which be particularly cultivates will be the effect of particular passages. The comic painter will perceive the comic traits in such passages just as the satirist involuntarily seizes upon the contrasts and inconsistencies of life. This must be, to a great degree, the effect of natural constitution. No one can give himself this power; yet it must be cultivated, if the individual aims at being truly an artist; for, though a lively imagination may easily embody interesting scenes in visible forms, yet whoever has conversed with artists has found how difficult it is for a young artist to present upon canvas a picture which he had thought was distinct in the highest degree in his mind. To obtain this skill requires long practice in drawing and painting: the artist must have executed numerous studies, be familiar with the folds of drapery and the expression of feeling. But just as poets often imagine that they compose when their minds only connect uncohsciously reminiscences of poems which have made a deep impression upon them, so painters too often believe they compose when they but render what they have seen elsewhere. . Originality of mind is one of the first requisites of a painter .- Landscape painting is not of so vast an extent as historical painting, yet it requires much study and great natural talent. If landscapes are not copies of beautiful or favor-ite scenery, if the landscape painter composes, he wishes to convey his feelings of natural objects, whilst the historical character, not merely the bare form of the painter is much more objective; i. e. he. horse. Other divisions of painting have

with reference to their connexion with himself. The landscape painter generally, though not always; indeed, aims more at the mere expression of feeling; hence is more subjective. (See Objective.) The landscape may become allegorical and historical (in the meaning of the term in the art of painting) by being adorned with figures. Of the former the works of the living landscape painter Frederic are examples, and of the latter those of Chaude .. Lorraine and Poussin. But the landscape painter must be careful not to disturb too much the effect of his landscapes by giving too great importance to the figures. . The chief study of the landscape painter is the vegetuble world, and none can make such use of the whole world of colors at he. Yetair, water, rocks, buildings, all require to becarefully studied by him. Flower and fruit paintings, still life, and arabesques, should be mentioned here. The first require. more than any other kinds of painting, the imitation of nature; in fact, to paint fruits requires little else than close copying, though even here there would be a difference between a naked copy of a fruit made for a horticultural society and a fruit-piece painted as such by a Van Huysum. There is, even in fruits, an ideal beauty which must animate the painter, and the elements of which he must extract from nature. Arabesques are the ... wild creations of a rich imagination, and not unlike the unrestrained productions of a poetical mind in the Arabian Nights: and, with all their wildness, they can show the genius of a true artist, and ought to do so, if they claim to be considered works of art. How fanciful and lovely are some arabesques, where flowers and leaves cotangle birds playing around human figures which end in plants and fruits!—The third chief division is animal painting, more circumscribed than either historical or landscape painting, yet a valu-, able branch of the art, whose highest aim is to represent with truth and life the character of the different species of animals, so important an element of surrounding nature. In some cases this branch approaches that of portrait painting; and, as we have said that the latter requires the power of reproducing not merely the bare. forms of the individual, but his life and character, so it is, in some cases, with animals; and the portraits of favorite racehorses would poorly satisfy the connoisexpressively and harmoniously by means seur, did they not express the individual represents ideas and feelings not so much reference to the technical part of the art.

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The enemetic painting of the ancients tian pictures are found, of the most ancient ... the modern encoustics approach near it. , We should mention also painting on enannel, on glass, on porcelain (q. v.), mosa-, ic painting (q. v.), &c. In regard to the materials, there is painting in fresco (q. y.), which belongs to painting in water colors, ' and miniature painting (q. v.), painting in pastel (q. v.), and oil painting. (q. v.) In reference to the ground upon which the picture is made, we have tapestry painting and wall painting, glass and porcelain

painting, &c.

History of Painting .- Painting naturally divides itself into the ancient and modern, because there is a decided difreference between the two periods of the art. Of an Oriental art of painting before the Greek and Roman, not in ich is to be said, as respects those qualities which make painting truly a fine art. In a full kistory of painting, indeed, the considerable perfection to which the Egyptians had carried the art of representation, and the incomparable excellence which they had reached in some branches of the technical parts of the act, would require to be treated of. Art, in the true acceptation of the word, says a connoisseur, can be attributed only to the idealizing nations, who have borrowed their cultivation from the Greeks; beyond this limit we find only fantistic coloring to animate large masses or to supply the deficiencies in picture-writing, yet always calculated for a sense dull in - respect to the beautiful, capable of being affected only by glaring colors, and subject to the rules of custom and worship. Only in countries where alphabetical writing existed, could painting elevate itself to a fine art. Wherever painting remained faithfultto its first object,-that of conveying historical information,-it was obliged to sacrifice the beautiful to the significant. In Egypt and Mexico, the art of painting seems to have been chiefly mintended to convey certain information by at bare imitation of objects. The early Highloo was indemnified, by the variegated cheurus of the colors which his country afforeded, for the want of purity and correctness of drawing. With the ancient Persians, aleto, the art of painting was undoubtedly what it is still, an irregular mix-ture of colors, identific images, without design and keeping. With the Figyptians, who so decidedly it offuenced the civilization of the Greeks, the art of painting roundness of the body by light, shade and was chiefly the offspring of religious wants, gradation of color. The most ancient

(see Encousies) is not now known, though, times, on the walls of temples and in tombs, on the covers and coffins of muinmies, and on the rolls of papyrus. Belzoni and Champollion agree as to the great beauty which these pictures, still brilliant on the walls, impart to the venerable monuments of Egypt. They are hieroglyphic or historical representations, painted works of sculpture, consisting of deeply-cut lines, filled with colors or metals, as is Isiac table-a most important The picmonument of that species. tures on the walls and catacombs are. colossal figures, painted with deep outlines, and surrounded by smaller pictures. In these also the claims of taste appear subordinate to clearness of expression, and the draability of the colors, which are laid on without half tints and shades. a later period, this Egyptian painting became common in Roing.-See, among other works, Bottiger's Ideen zur Archiologie der Malerci (vol. i. Dresden, 1811). We find the eldest Greek school of painting on the coasts of Asia Minor and the islands. Fortunate circumstances here gave an early impulse to the art, the rudiments of which we find even in the Homeric times, in the colored carpets and weavings. A representation of the defeat of the Magnesians (719 B. C.), by Bularchus, is mentioned as the first considerable picture; yet the accounts which we have of it are probably exaggerated. From this source the Greek colonies in Italy and Sicily are said to have received the germs of the art. In Greece Proper, also, we find the art of painting originally a companion of 'sculpture for religious purposes. The idols of the original savage Greek were most probably colored, so" that, even in later times, it was long before the Greek could resolve emirely to give up coloring his statues. The last remnant of this was the coloring of the eyes, or the making them of enamel and stones. It was long before painting appeared in sacred. pictures independent of the plastic art. The cornices of the temples, the relievi of the pediments, the galleries, &c.; were soriginally painted. The proper art of painting must have proceeded from drawing, which commenced with fixing the outlines of shadows. From drawings the ... first step was to monochromes. The next step was to paint the contours with one color, then to represent the was chicity the charge and ordinate relations of this way of painting are the rion to sculpture and architecture. Egyppictures on vases with black figures, simremnants of this way of painting are the

ilar to silhouettes. This manher was con-tinued till late. The style, which was Greeks became th used in painting on colored was tables, when their civic prepared skins of animals, and smoothed tablets of box-wood, sufficed for the linear drawing, which, according to the an-eccloic of Apelles (q. v.) and Protogenes, must have reached great perfection among the Greeks. The polychrome, the drawing with different colors, supposed a more artificial instrument—the brush, moved by the hand with greater case and freedom. Among the few artists of this period, whose names have come down to us, is Pengenus, the consin and assistant of Phiding. He was the first who contended for the prize of painting at the public games at Corinth and Delphi. His wall pictures in the Athenaeum at Elis, his pictures in the temple of Jupiter at Olympia, the painting of the Pacife in Athens, with the battle of Marathon, together with his portraits of the Greek and Persian generals in several pictures, have brought his name to us, as well as his painting and ornamenting of the statue of Jupiter. In general, we must observe that the Persian invasion of Greece makes an epoch in the art of painting, as in overy other fine art in Greece. Perhaps it was at an earlier period that Mycon painted. He was the rival of Polygnotus, and also ornamented the Paccile and the Theseum with representations of the buttles of the Amazons and Centanys. In Polygnotus (q. v.) of Thasos the art of painting attained independence about 420 B. C. His merit consists in a greater and livelier expression, in variety of drapery and symmetrical distribution of figures. In the distribution of light and shade, Apollodorus of Athens (404 B. C.) seems to have much advanced the art. Zemis (q. v.), about 378 B. C., elevated the art to beauty: be exhibited a capon of beauty in his fignous Helen. His rival, Parrhasius of Ephesus, inclined more to grace, or the female expression of beauty. His pure proportions and his graceful color-ing rendered him fumous. Timanthes of Samos attained the highest degree of perfection in expression. Apelles (q. v.) connected with the utmost truth of nature a flattering voloring, and is called a master in portrait painting: After him painting sunk into artificial prettiness and insipidity, and even devoted itself to the representation of ordinary and volgar subjects (typurography). Among the Romans, this art awakened little interest. At an early period, they knew only the puntings of

At a later period, the Greeks became the teachers of the Romans. when their civic virtue had already gone, and luxury had taken its place. Many monuments of the ancient art of painting have been discovered in the tombs and baths of Rome, Pompeii, and other places of Italy, which consist chiefly of frosco paintings and mosaic work. The number of existing monuments of Greek and Roman painting, however, is so small, that the inquirer must often be satisfied with mere conjectures, assisted by comparison with the works of these nations in other arts, and by the testimony of classic authors. Yet learned archaeologists seem to acknowledge universally that the art of painting in antiquity always remained behind sculpture, as well in respect to the degree of its employment as of its perfection. Hence the well known opinion that painting was then more plastic. In consequence of a number of causes, both intellectual and physical, scupture was more cultivated with the Greeks; and painting was influenced by this circumstance. The form, even in painting, predominated over the charm of coloring, and the expression which it conveys. The contour and the local colors seem to have been perfected in a great degree; the perspective much less. Some, indeed, have doubted whether the ancients had any knowledge of perspective; but, asperspective is not to be dispensed with in any representation on a plane surface, and as the ancients were well acquainted with geometry and optics, we must suppose them to have possessed, in some limited degree, the use of perspective. It is more certain that they were ignorant of hiaro-Their art of painting, indeed, was. scuro. limited chiefly to the representation of historical situations and of animals; but landscape painting remained comparatively uncultivated, because this branch depends more than the others upon the" perfection of coloring and the charm of chiaro-scuro.-For the history of the ancient art of painting, see, among other works, Junius De Pictura Vetéram (edit. Gravius, Rotterdam, 1694); Durma's Ifistoire de la Peinture ancienne (ofter Pliny London, 1725); Turnbull's Treatise on Ancient Painture, &c. (London, 1740); \ Vinc. Requenc's Saggi sul Ristabilimento dell' antica Arte de' Greci e de' Romani Piltori (new edition, Parma, 1787, 2 vols.) Andr. Riem, Ueber die Malerei der Alten period, they knew only the punnings of (Berlin, 1787, 4to.); Grund, Ueber die Ma-ther Chruscans; and Fabius, who was sur- lerei der Griechen (Dresden, 1810, 1811, 2 named pictor, stands alone in the annals vols.); and Böttiger's work above incution-

nical part of painting among the Greeks and linhans, see Hirt, in the Transactions 1803, und Stieghtz, Vieber die Malerfarben der Griechen und Romer (Leipsic, 1817). Copies of antique pictures, particularly Roman ones, are found in the works of Bartoli and Bellori (e. g. Recueil des Peintures antiques, Paris, 1757 und 1784), in which several fresco paintings (e. g. those found in the casa di Pito) are described and copied; also in Carletti's and Pance's descriptions of the baths of Titus, and in the collection of the antiquities of Herculaneum, and Millingen's Printures antiques (Rome, 1813). The art of painting attained a greater perfection after the introduction of Christianity; nay, it became predominant over the plastic art. Christian or modern times, sentiment, feeling, became a prominent feature of works of art; and these can be expressed much more easily and much more perfeetly by colors than by the rigid forms of sculpture. For this reason the modern or Christian period has, in respect to the fine arts, been termed romantic, in contradistinction to classic (q. v.); and for the same reason the art of painting is called presimmently romantic, as is also the modern art of music. The baron de Rumohr maintains that the first application of the art of painting to Christian subjects took place in sepulchres. The later Grecian school or art is generally considered as the common parent of the whole modern art of painting in Europe. Properly speaking, it is the transition from ancient to niodern art. With Constanting, modern art travelled to Constantinople, which he founded on the site of the ancient Byzantium (A. D. 330), and many pictures and statues accompanied him. (See Heyne in the Comment. Sec. Gotting., vol. ai.) In the later period of paganism, Greek and Roman art were so blended that no difference existed between them, until the conquest of Italy by the Lombards. In the pictures of the time of Justinian, the mechanical skill of former times was preserved, though the art, in its higher requisites, had deteriorated. (See Byzanline Art.) We often find mention in this period of works in mosaic, and enematic painting seems still to have been in vogue, (See Fiorillo's History of Painting, vol. i, p. 30:) In the fourth century, and still more in the tifth, the custom of placing pictures of saints in the churches became more and more common, both in the Eastern and the Western church. This W. W. W.

. y · ed. Respecting the materials, and the tech-custom inspired the artists with a new zeal. and the Christian religion, or, to speak more and linhams, see Hirt, in the Transactions properly, the Christian worship, became of the Berlin Academy, from 1798 to, the field in which the modern art grew. and flourished. Not unfrequently the art contributed to the propagation of the religion. It suffered much, however, under the sway of barbarous tribes : but it never reased entirely, and was fostered by the popes and bishops. Pictures of a religious kind were estremed, particularly in the West and many legends of their supernatural origin were diffused among the credulous. , But from 726 the iconoclasts (q. v.) arose, and many Greek artists emigrated to Italy. Here the art was chiefly cherished; yet the painters diminished in number from the minth century. In the thirteenth century began a new period of the art in Italy. The representatives of the Italian school are Michel Angelo, Correg-gio, Raphael, Titian, & c. Their endeavor was to present the beautiful in the noblest forms, and to transfer the ideal of the antique to the art of painting. (See Italian Art.) Another branch of the Byzantine art was the Rhenish or old Calogne school, which extends from the fourteenth century to the fifteenth. Its works have the decided stamp of the Byzantine school, which ceases with the brothers Eyek, who imitated nature. Their example was followed and improved upon by Hemling, Meckenem, Michel Wolgemutt Martin Schon, and the painters of the sixe teenth century, Luke of Leyden, Dürer, Schoreel, Mabuse, Bernard of Diley, &c. Some maintain, that there are but two schools essentially different,-the Italian and the Netherlandish,--while the German, French and English artists belong to the one or the other, according to the character of their works. (For the Netherlandish school, which again was divided into the Dutch and Flemish, see Netherlandish School; see also German and France.)—The true creator, of modern landscape painting was Giorgione, born 1477. The Flemish painter Mathew Brill, who is generally considered the founder of this branch, painted landscapes seventy years later.-See Deperthes's Histoire at l'Art de Paysage depuis la Renaissance des Beaux Arts jusqu'au XV me Siècle (Paris, 1822), and Théorie du Paysage, by tho. same.—The recent endeavors of the European nations and the Americans do not form so connected a whole as the Greek art. For some time the art of painting had sunk from its highest destination; landscape and portrait prevailed, and in

many countries continué to do so, while engravings multiplied the master pieces , of former ages, In France, the revolution, and afterwards the warlike period of Napoleon, gave birth to several great historical paintings, some of which contain uncommon beauties, though in general the style is not popular out of France. theory of painting has been much developed in its technical parts, i. e. drawing, perspective, coloring, &c., more than in its higher departments, which may be found treated of in the works of Cennimi, Leonardo da Vinci, Mengs, Algarotti, De Piles, Watelet, Du Bos, Richardson. Reynolds, Dan. Webb, Lessing (in his Laocoon), Winckelmann, Fusch, Fiorillo, Gothe. For the well known works of Vasari and Lanzi, see these articles. Rumohr's Italian Researches (Berlin, 1827, 2 vols.), and Memes's History of ,' Sculpture, painting, and Architecture, reprinted from Constable's Edinburgh Miscellany (Boston, 1831), are also valuable.

PAINTING ON GLASS. (See Glass, vol.

v, page 510.)

Paisterro, Giovanni; a celebrated singer and musician, the son of a veterinary surgeon of Tarento, in Italy, where he was born in 1741. From the age of five to that of thirteen, he was placed by his father at the Jesuits' college in his native city, where his musical talents first exhibited themselves in the matin services performed in the chapel; and the chevalier Carducci, who superintended the choir, prevailed upon his friends to send him to Naples for further instruction in the science. Accordingly, in 1754, he was put under the care of the celebrated Durante, at the conservatory of St. Onofrio, where his progress was very rapid; and, in 1763, his first opera (La Papilla) was performed, with great applause, at the Marsigli theatre, in Rologna. From this period commenced a long career of success, which attended him at Modena, Parma, Venice, Rome, Milan, Naples and Plorence, till, in 1796, he was induced to enter the ser--vice of Catharine II of Russia, who settled on him a pension of 4000 roubles, with a country house and other advantages, in his capacity of musical tutor to the grandduchess. In Russia he remained nine years, when he returned to Naples, visitthe service of Fernand IV fill the court retired into Sicily. On the French revo-lution extending to Naples, Paisiallo, who remained behind, received from the republican government, now established, the by given to the knights-errant, who wan appointment of composer to the nation, dered about the earth to give proofs of

On the restoration of the Bourbon family he fell into disgrace; but, at the expiration of two years, was restored to his situation. Napoleon afterwards sent him an invitation to come to Paris, which he accepted, but declined the directorship of the imperial academy, which was offered to his acceptance, contenting himself with that of the chapel. After remaining in the French capital nearly three years, his own health and that of his wife compelled him to return to Italy, where, on the expulsion of the Bourbons, he was made chambermusician to Joseph Bonaparte, receiving at the same time from Napoleon the cordon of the legion of honor and a pension of 1000 fitnes. In this situation he continued under Murat, and became a member of many learned and scientific as well as nusical societies, especially of the Napoleon academy of Lucca, the Italian acad- > emy of Leghorn, and the French institute. There are few composers who have given greater proofs of industry than Paisiel-lo, or whose works have met with greater success all over Europe. His operas, serious and comic, execed seventy, besides a great variety of ballets, cantatas, and some sucred music of great merit. He died in 1816, at Naples, and was honored with a public funeral. Simplicity, elegance and correctness are the characteristies of his style, while his grace and freshness of melody, in which he has far surpassed most other composers, have made him a model to numerous imitators.

PAISLEY; a large and opulent manufacturing town of Scotland, on the Wite . Cart. The chief architectural ornari 3 of the town is the abbey church. abbey was founded in 1100. Paisley been long celebrated on account of sol of its branches of manufacture. Abd -5000 looms are employed in the fand muslin manufacture. The weaving of coarse cottons for printing, and of cottol sheeting, is also extensively carried on Shawls, searfs and plaids, both of silk and cotton, and also of silk mixed with Merino wool, are extensively manufactured. In 1805, since which time the trade has not much changed, it was estimated that 20,250 persons were employed in the manutacture of muslin 240 in that of silk, 7000 in cotton spinning, 1440 in threads, and 100 in incle or tape. Population, in-cluding Abbey parish, 47,003; seven miles south by west from Glasgow; Ion. 4° 22. W.; laj. 55° 58′ N.

PALADIN. This was the name former

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obliged every knight whom they met in their travels to as knowledge their mistress - as unrivalled in beauty, or, in case of refusal, to engage in mortal combat. The first adventurers of this kind mentioned in the old romances belong to the round table of king Arthur in England; the most famous of them was the beautiful Lancelot of the lake. After him Amadis of Gaul held a high place among the knights . errant; and, still later, the paladins of . Charlemagne, the most distinguished of whom was his (so called) nephew, the brave Roland, or Orlando.-The history of knight-errantry is as much mingled with fabulous stories as the accounts of the Grecian heroes. The name of paladin is derived either from palatinus or from palus, a pointed piece of wood, a wooden spear or lance, which these knights com-monly carried as their weapon, together with the sword.

PALEMON. (See Melicerta.)

PALEDGRAPHY, the science of deciphering ancient written monuments, not only teaches how to read old writings, but to separate their constituent parts; to ascend. as far as possible, to their sources, and to follow all the changes which one and the same writing may have gone through by alterations which several kindred dialects have undergone after their separation from the common stock. This is the definition given by Kopp, whom Germany now esteems the first among her pala-, ographers. The province of paleography extends, therefore, to every thing written, and is consequently increasing every day by the new discoveries of written monnments in countries formerly inaccessible. . It is distinguished from diplomatics, however, by the circumstance that the latter, has to deal with public and official docu-· ments illustrative of history since the fifth century. Paleography first received a scientific form from Bernard de Montlaucon's Palæographia Greca. Barthélemy, the author of the Travels of the Young Auschars's, by his Essai d'une Paléographie Numismatique (Mem. de Académie des Inscriptions, tome xxiv, 30), put the palarog-raphy of the Semitic languages on a foot-ing corresponding to that of the classic. Hegel, in his paleographic fragingents (On the Writing of the Hebrews and Greeks, Berlin, 1816, and Hartmann of Robrock in his Investigations concerning Asiatic Mon-timents, have greatly enriched the science. The greatest difficulty has been found in those abbreviations which in Latin docu-

their valor and their gallantry. They ments have been known by the name of note tironiane, and were in use until the tenth century. After many unsuccessful attempts, they have been wonderfully explained by the sagacity of Kopp. This study has been a favorite one in France since the time of the benedictine St. Maur." The Corpus Inscriptionum of Bockli, . which is appearing at Berliu, is expected to throw much light on the inscriptions of ancient Greece.

PALEPRATUS; un auto-Homeric poet of. Another Palæphatus, probably Athens. of the fourth century (according to some, of Athens; according to others, from Paros or from Priene), left five books On Incredible Things, in which mythuses are explained allegorically. It is generally printed together with Esop. The best edition of the separate work is by Fischer

(Leipsic, 1789).

Palæstra. (See Gymnasium.) Palafox. (See Saragossa.) Palais Royal, in Paris. This palace, with its gardens, its courts, its galleries and areades, is the central point of pleasure in Paris. It was built in 1663, by cardinal Richelien, who gave it the anime of patais He bequeathed it to Louis cardinal. XIII, after whose death Anne of Austria entered it, in 1642, with her infinit son. the lapse of years, showing likewise the *Louis XIV, quitting the Louvre, where she had previously resided. From that time it has borne the name of palais royal. Louis XIV resigned the occupation of it to his brother, and at last gave it to his grandson, the duke of Chartres. Since then, it has remained in the family of Orleans, which made it their abode until 1791, and returned thither in 1816. Frenchmen who remember it as it was in the last century, speak with rapture of the great avenue of chestnut trees, which formelly extended the whole length of the garden. From 11 o'clock in the morning it was crowded with people; there were, seats on each side, which were always filled with men of all ranks and allocountries. In the centre was a tree-the famous arbre de Cracovie ; under its shade the politicians decided the fate of the world: this was ever the most liberal spot in Paris. The trees were afterwards superseded to rows of booksellers' and jewellers' shops gambling and coffee houses, theatres, and other establishments of the kind. This assemblage brought a nich revenue to the duke. The walkers avenged them selves with jokes, for the loss of their beautiful trees: they called the duke the two of the great wings were finished,

Charles & Barrell

the arcades of which were immediately crowded with splendid shops. New rows of trees were planted, but they did not flourish, probably on account of the dust raised by the crowd, which perpetually ultrongs the garden. The thatte Frunçais was also placed in the palais royal, and yet remains there. During the revolution, the duke called this pulace the palais egalite. In 1802, it had, for a short time, the name of patais du tribunat. The principal entrance to the palais royal is upon the one St. Honoré. The front is seen from the chalcau d'Edu-t building containing the reservoirs of water for the Tuileries and pulais royal. The two front wings, with Ionic and Doric pillars (each of which is adorned with a pediment and statues by Pajou), are joined together by a Doric portice. Three gates afford entrance to the pulace. Upon entering the first court, the two wings of the buildings here appear adorned with Ionic and Dorie pallars. Between them is the outer court, which leads from the first court into the second (la cour royale). Massive Doric pillurs ariso, on each side, but their effect is destroyed by the number of the booths and shops, which are crowded together about them. The second court is, separated from the garden by 'wooden galleries, and there the booksellers and pamphlet sellers; the milliners and riband venders, exhibit the articles in which they deal. Through this galerie de bais one enters the fairy land of the garden, sur-rounded by its splendid areades. This garden has no shade; it is stiff and dry; the ground is hard-pounded gravel; the trees are small and quickly withered, being struck by the reflected rays of the sun. But the effect of the arcades and pavilions, especially in the evening, when they are brilliantly illuminated, is truly splendick. The two side wings have a length #200 feet, and the opposite ones a length of 300: They are all of similar form. Fluted pilasters, of the Composite order, surround the building, and support a balustrade, upon which are vuses, which cover its whole length. On the level ground, a vaulted gallery surrounds the building, with 180 arcades, between every two of which is suspended a large lamp. They terminate, on both sides, in two vestibules, adorned with magnificent colunins. The intervals are ornamented with festoons and bass-reliefs. Over the 'But the upper halls are still more seducareades is the first story, with high windows, proportionate to the building; above withis, the second story, with lower win- shops and the brilliant halls of the restodows; and above this, the windows in the redeurs, are the infamous gambling-rooms, 图 的复数形式

roof, before which runs the terrace. Here gratifications are held out to every appetite and desire. The book shops afford the oldest and the newest, the most scientific and the most frivolous books. Celebrated and unknown writers here meet, : and the place swarms with crities and amateurs. A splendid jeweller's shop, which fills three areades, is, in the evening, lighted up by more than 50 wax lights, and large mirrors increase the light and the play of colors. The elegant shops of the milliners afford all that fancy can create with riband and gauze, with flowers and feathers. One lofty arch glitters with brilliant silk stuffs; another, with the finest cloths, the richest Eastern shawls, or the most delicate embroidery. Shops with watches of every kind al-ternate with others filled with beautiful porcelain: here are ornaments of Wedgewood ware and of diamonds; there are gold watch-chains, sword-hilts of polished steel or of silver; here are exhaled the most deheious perfumes; there, beauti-ful ministure pictures or splendid engravings attract the eye; bonbons and mathematical instruments, playthings and arms, are exhibited in beautiful variety; in one place we meet with a shop which contains all articles of dress, made in the most exquisite taste: in another, with luxurious furniture. Lottery-ticket sellers and money-changers, scal-engravers and pastry-cooks, restorators and fruit venders, are all crowded together. The choicest delicacies, from the sea and from the provinces, are collected in the celebrated boutique au gourmand, while the best ice is to be found in the cafe de fai, where assembles the most select company. In the café des aveugles is heard the gavert music, executed by blind persons, while loud cries and reckless gayety resound from the cafe du cureau and the cafe du sauvage. The cafe du rentriloque attracts many guests, to witness the performances of its proprietor; and the cafe des mille colonnes, to view its thousand brilliant mirrors. All the articles for sale in the palais royal are dearer, by one half, than in the rest of Paris. Every thing here appears to be intended for the gratification. of the senses : nothing spiritual, pure or natural finds a congenial atmosphere, and the uncorrupted stranger soon wishes hinself away from this intoxicating labyrinth. ing and dangerous than the galleries. Here, in the first story, between the rich

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where, at the green tables, roulette and rouge et noir stand ready for their victime. measures of Agameunon, and, for a while, In the atties live the shop-keepers, whose places of husiness are below; and also a few public girls, under the charge of older. women, though neither in such numbers hor so well educated as they are repre-Ar every hour of the day, men are to be found walking in the palais royal. Early, in the morning, the industrious tradesman passes through it to breatha the fresh air before he goes to his labor. The inhabdants are yet plunged in sleep. At eight o'clock the shops are opened, and at nine the coffee-houses begin to fill; the newspaper-readers assemble, and the groups collect. From twelve to two, it is the rendezvous of the gay world. benches are insufficient; hundreds of straw-hottomed chairs, which are piled up under the trees, are brought forward, and let for two sous each. From two to five, the crowd diminishes, but the nursery maids, and mothers, with their little children, employ-this interval; soon, all those , who frequent the theatre pass by in crowds. About eight o'clock, the public women appear in the garden: at a later hour, they are found, for a short time, in still greater numbers, in the galleries, which the police allows them for their walks. The brilliant illumination now begins, and the hours, until eleven, are noisy and variously employed. After eleven, the noise gradually ceases, and at twelve the gardens are empty, and every thing is still. The walks are watered three times a day, so that the dust is not troublesone. A pleasant coolness is preserved by a large fountain, in the middle of the garden, with a jet d'eau in . twenty-four streams. From the gardens one can also pass, through a second gallery, into the court, where the most beautiful flowers and foreign plants are to be had. Another entrance leads, by an open staircase, into the splendid rue Vivienne. The palais royal is the richest and most faithful picture of the frivolity and havery, of the sensuality and corruption, of modern times.

et the siege of Troy, said to have been the son of Nauplius, king of Eubera, and of Clymene. After having with the other. Grecian ambassadors, in vain demanded having discovered the feigned moduess of Ulysses, by which this prince had hoped Hesse-Darmstadt, Wassau, &c. to escape participation in the Trojan war, he joined the army of the Greeks. In the used in the middle ages to signify the

councils of the beroes, he opposed the took his place as confineder-in-chief. Homer, however, says nothing of this conduct of Palamedes. The accounts relating to him, and especially to his death, are very contradictory. The most common are, that Ulysses buried a treasure in his tent, and, by a forged letter, brought him under suspicion of a correspondence with Priam, whereupon he was stoned to To him is attributed. death as a traitor. the invention of dice and of dramatic entertainments, or, at least, the introduction of the latter, and also the invention of arithmetic, and of weights and measures. . He is commonly said to have added tour letters $(\theta, \xi, \phi, \chi)$ to the old Greek alphabet of sixteen letters, introduced by Cadmus. A knowledge of astronomy and of medicine is also ascribed to him. He is likewise said to have written poems. According to general tradition, he played a distinguished part in the early history of a Greeian improvement.

PALANQUIN, OF PALANGERY; a sort of litter, or covered carriage, used in the East. Indies, and borne on the shoulders of four porters, called coolies, eight of whom are attached to it, and who relieve each other. They are usually provided with a bed and cushious, and a curtain, which can be dropped when the occupant is disposed to:sleep. The motion is cosy, and the travelling, in this way, is safe and rapid.

PALATINATE, UPPER and LOWER, were two countries of Germany. (For the derivation of the name, see Palatine.) The Upper Palatiente was a territory of 2756 square miles, bordering on Bohemia and Bavaria. Amberg was the seat of government. Until 1620, the Upper and Lower Palatinate belonged together; but when the elector Frederic V (son-in-law of James I of England), after the battle of Prague, was put under the ban of the empire, the Upper Palaunate was given to Bayaria. The Lower Palatinate, or l'alatinate on the Rhine (1500 square iniles, with 305,000 inhabitants), was situated on both sides of the Rhine. This territory is, in spite of the horrible devastations which . PALAMEDES: one of the Grecian heroes it has suffered from time to time by war, the siege of Troy, said to have been the one of the most productive parts of Goremany. In consequence of the great changes in Europe, after the first French revolition, the country which formerly of Priam the restitution of Helen, and constituted the Palatinate on the Rhine is now possessed by Prussia, Bavalia, Baden,

PALATINE (from patatium, the words

royal palace) was originally applied to persons holding an employment in the king's palace, and afterwards to one invested with royal privileges and rights. (See County Palatine.) In Hungary, pallatine signifies the highest baron of the realm, or magnate (4. v.), chosen by the diet from aniong four nagnates proposed by the king (the emporor of Austria), in order to represent the latter, in all important affairs. He is president of the council of regency, of the highest court of appeal, and has the highest rank of all the magnutes, except the archbishop of Gran. There was none from 1765 to the death of Joseph II (1790). Leopol-1 II yielded to the complaints of the Hungarians, and appointed a new one. The archduke Joseph Authory, brother to the emperor Francis, born 1776, is the present palatine.

PALATINE, COUNT (comes palatinus), was the judge and highest officer of the Franconian and German kings. Every regal castle (palatium; in German, Pfalz), of which there were some in every part of the realm, had such an officer. The of the realm, had such an officer. count of the palace of Aix-la-Chapetle (archisolium totius regni) was the first among them, and one of the first crown officers of the empire. The county palatine on the Rhine originated from the dotation to him. Fach of the ancient duchies had also its county palatine. At a later period, the German emperors abpointed comites S. palatii Lateranensis, to exercise certain imperial privileges, also, in the territories of the members of the cuspire. There were two classes of them, one with more power (comitiva major) than the other, authorized to raise to nobility, and confer the comitive minor; the other had the nower to make doctors and notaries, to legitimate natural children, confer coats of arms, &c. At present, the whole dignity of the palatine court is a mere antiquated form.-Palytium was used, in many countries, for the regal palace and the privileges connected with it; hence, in England, the counties palag tine. (See Palatine.)

PALATINE HILL, PALATIUM. (See Rome.) PALE, THE ENGLISH. (See Ireland, vol. vii, p. 59.)

PALEMBANG. (See Sumatra.)

PALENGER; a village of Central America, in the state of Guatemala, about 215 miles N.W. of the city of Guatemala. It is remarkable for the ruins of d great city which it contains, and which, lying in the centre of an immense wilderness, were not known to the Europeans till 1750, when they were discovered by some Spaniards, you... 1x.

In 1787, captain Del Rio was employed, by the king of Spain, to examine them. The ruins extend along an elevated ridge, for the distance of about twenty miles, and consist of bridges, aqueducts, palaces, temples, &c., all of stone; from which circonstance the Spaniards call them casas de picdras. The London Literary Gazette of Oct. 15, 1831, contains a letter from Galindo, communder of the neighboring district of Peten, giving an account of his investigations on the spot. The ruins, according to him, contain numerous figures of men and animals, in relief, some of colossal size, together with paintings, and what he conceives to be characters representing sounds, or a phonetic alphabet, of which no traces have been else-There is no where found in America. tradition, among the patives in the vicinity, as to the time of their origin or their builders. Mr. Galindo is preparing an Account of Central America, which will furnish further information on this inter-

esting subject. (See Writing.)

PALERMO, the capital of the kingdom of Sicily, and of an intendancy of the same name, is situated on a small gulf on the northern coast of Sicily; lat. 38° 6' N.; ' lon. 13° 21' F. It is a well built and strongly fortified city; the barbor, into which 500 foreign ships enter yearly, is protected by two strong castles. The number of inhabitants was formerly 200,000, but the population has declined, and is now only 163,300. Among the principal buildings of the city are the palaces of the viceroy and of the archbishop, the great hospital, the convent of St. Clara, the professed house of the Jesuits, the archiepiscopal cathedral, the council-house, and several splendid churches and gates of marble and alabaster. The two principal streets cross each other in the centre of the city, and form a regular octagon (the piazza villena), which is embellished by handsome buildings. The streets are well payed and lighted. The university (Accudemia Reale) has a respectable library, . an observatory, and a cabinet of coins. There is also an academy of sciences in The exports are almost all Palermo. the productions of the island, --- wine, oil, fruits, wheat, manna, &c.; the imports are colonial goods and manufactures. The silk of Palermo is cultivated in the neighborhood, and chiefly exported raw. Palermo has frequently suffered from earthquakes, principally in 1726 and 1823. (See Sicily; and Naples and Sicily, Revolution of.)

PALES; one of the rural deities of Italy,

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the giver of good pasturage, and the prorectress of the flocks from contagion and wild heasts. Shot was represented as a pastoral goddess, with a staff, and a crown on her head, and was worshipped, sometimes under the trees, sometimes in temples. Her festival was celebrated on the same day as the anniversary of the founding of Rome (April 21). The offerings to her were milk and cakes. Some authors represent Pales as a male deity,

the son of Jupiter.

PALESTINE (Falesthin), called the land of promise, on account of the promise given to the posterity of Abraham, embraces the coast of Syria on the Mediterrancan, from Lebanon south to the limits of Egypt, and was one of the most fertile countries of the old world. Wine, sult, wild honey, balsam, olives, dates, figs and pomegranates, with large flocks and herds, were its productions. The alternation of mountain and valley, the temperate climate, the numerous streams, the rains of spring and autumn, caused its Its present barrenness arises fertility. ' from the inactivity of its inhabitants, who obtain their living either from the pilgrims or as robbers. It was called, after the ancestor of its inhabitants, Canaan, when Abraham travelled into its southern provinces, and, by buying a burial-place for lds family, laid the foundation for the subsequent conquest of the country by the Hebrews, under Joshua, 1450 B. C. They divided it into twelve confederate states, according to their tribes. Saul united it into one kingdom, and David extended it, by his conquests, to the east and south, Phænicia, the northern part of the western coast, where the conquered Canaanites maintained themselves, remainted entirely independent of the Hebrews. The two kingdoms, Israel (to the north) and Judah (to the south), into which Palestine was divided, 975 B. C., comprehended together the country between 31° and 32° of longitude, and 31° of latitude. . By the fall of these kingdoms (751 and 730 B. C.), Palestine became a Persian sarrapy, and the political and religious division between the Hebrew colonies, when returning from captivity to Palestine, under Cyrus and Darius I, was the origin of that separation which continued to the time of Christ. The country on this side the Jordan (the principal river, which flows south from Lebanon, through the lake of Genesarcth, to the Dead sea) was called *Judæa*, in a wider sense, and contained these provinces: Judgea, or the largest southern province, including Jeru-

salem, Bethk hem and Jericho on mount-Judah, the ports of Cesarea and Joppa-(now Jaffa), on the coast of the Mediter-. runean, and a part of Idumea; Samaria. or the smallest interior province, with the city of Samaria (afterwards Sebaste), and Sichem now (from the Greek name Neopolis), Nablus and mount Ephraim, or Israel, upon which lies mount Gerizina; and Galilee, the most northern and fertile province, bounded on the south by mount Carmel and mount Tabor (which joins the other mountain), on the confines of Samaria, on the west by Phrenicia, and on the north by Lebanon, and containing the towns of Tiberias (which, after the destruction of Jerusalem, was celebrated as the seat of Jewish learning), Capernaum and Bethsaida on the lake of Genesareth, Nain, Nazareth and Cana. To the country beyond the Jordan belonged the provinces of Perce, the largest and most somberly, with mount Gilead, Gaulonitis, east of the lake of Genesareth, Batanea and Trachonitis, the smallest in the nořth. The different monuments at Jerusalem (see Jerusalem) give us the epochs of the history of Palestine. The Christian kingdom of Jerusalem, founded in 4093 by the crusaders, gave a new impulse to the prosperity of the Holy Land; it uncluded the provinces on this side the Jordan, together, with Phoenicia and Philista'a, and extended beyond the Jordan to the deserts of Arabia. Its constitution was European; a patriarchate, four archbishoptics, righly endowed monasteries and ceclesiastical establishments, three orders of knighthood, several earldons and baronies, were instituted; tribunals were... formed for the nobles and the third estate; an army of from 12,000 to 20,000 men was kept on foot; and the mosque built by the caliph Omar, in 637, upon the site of the temple of Solomon; was changed into a magnificent cathedral. The increasing population, with moderate taxes, a fruitful soil, and a favorable situation for commerce, appear to have secured to this kingdom prosperity and a long continuance. The kings, Godfrey of Bouillon (who died in 1100), Baldwin, Anjon and Lusignan, ruled with mildness, and fought with various success against the Saracens, whom the internal divisions of the reigning family, and the delay of succor from Europe, enabled to reconquer the kingdom. Saladin took Jerusalem in 1187, again made the cathedral a mosque, and the gold of the Syrian Christians alone preserved the church of the holy sepulchre. After a hundred years

of oppression, the Christian rulers were at last, in 1201, entirely driven from Palestine by the Mamelukes. Since then, Palestine, laid waste by bands of Arabian robbers, has smarted under the rod of tife. Mohammedans, and now, belongs to the pachalic of Damaseus, in the Turkish province of Soristan. Jerusalem, which has been sacked sixteen times, offers now but the shadow of its former greamess. The policy of the Turks, who raise a heavy contribution from the few pilgrims from Christian lands, who still visit this , holy place, has not suffered the total decay of the monuments of the history of Jesus, which were designated during the Christian reigns in the twelfth century. Chatembriand, in his Journal of a Journey from Paris to Jerusalem, declares that he saw, in the strongly fortified monastery at Bethlehem, a church divided among Roman Catholic, Greek and Armenian monks, with a subterraneous chapel; that it encloses the place where Jesus was born, his manger, and the grave of the innocents, and is adorned with beautiful pictures. In the neighborhood of Jerusalem, the valley of Jehoshaphat, which extends between mount Moria and the mount of Olives, and is divided by the brook Kedron, is used as a burial-place by the inhabitants of Jerusaleer. garden of the mount of Olives, containing Gethsemane, the chapel of the sepulchre of the holy virgin, and the grotto of the bitter cup, has now a small mosque at the place of the ascension. Sion is a hill of a barren appearance and vellow color; the house of Caiaphas (now an Armenian church, the house of the preparation of the holy supper, and of the outpouring of the Holy Spirit (now a mosque with a Turkish hospital), and the palace of David, are to be seen in ruins; to the southward, in the valley of Hinnom (Tophet), is the field of blood and the burial-place of the kings; in the interior of the city is the ria dolorosa (painful road), through which Jesus walked to the cross; it is 500 paces in length, from the house of Pilate (now in mins), to the church of the holy sepulchee. This church, whose walls, according to the history of the crucitizion, cuclose all the places remarkable for the burial and resurrection of Jesus, is 126 paces in length, and 70 in breadth. It is in the form of a cross, with three domes, and is built on uneven ground. Clergymen of eight nations and different Christian sects, possess it by turns, and perform in it public worship according to their respective forms—Catholics (who are

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monks of St. Francis, from the monastery of St. Salvator in Jerusalem), Greeks, Abyssinians, Copts, Armeniqus, Nestorians and Jacobites, Georgians and Maronites. The priests who perform the service, and the monks of the different seets. commonly remain two months in the church, until their place is taken by others. Two hundred lamps burn day and night in the wide rooms of the building. Its walls, in which are seen the funeral monuments of Godfrey and Buldwin La appear to have been standing since the time of Constantine the Great; the architecture of the interior is the work of the crusaders. This church was injured by tice Oct. 12, 1808. The chapel of the holy sepulchre remained uninjured, and the cupota, covered with lead, which fell at the time of the fire, has been replaced. Mr. J. W. Ingraham published at Boston (1828) Assheton's Map of Palestine, improved, with a geographical index.

· Palestrina, Giovanni Pietro Aloisio, or Perhagi da, the most celebrated master of the old Roman school of music, was born at Palestrina, the ancient Preneste, whence hes surname, Il Prenestino. He studied music under a master of the Gallo-Belgic school, whom some call Gandimet. His genius soon raised him to the first rank of musical composers, and effected a great reform in church music. Towards the middle of the sixteenth century, untsic was at so low an ebb, that pope Marcellus II had already formed the plan of banishing it from the churches, when Palestrina, who had conceived juster notions of the true character of church music, obtained permission to execute one . of his own compositions before him. He accordingly performed the mass for six voices, still known as the Missa Papa: Marcelli, the elevation and simple beauty of which led the pope to abandon his From that time music became design. an essential part of the service of the Catholic church. Marcellus and his successor. Paul IV, employed Palestrina to compose a number of similar pieces for In 1562, he was made their chanel. chapel-master of Santa Maria Maggiore, and, in 1571, of St. Peter. To this period . we owe his greatest productions. style (called alla Palestrina) prevailed over the Flemish school, which was then in high repute throughout Europe died in 1504, and was buried with great pomp at the foot of the alter of St. Sunort and Juda, in St. Peter's. His monument bears the inscription Johannes Petrus Moysius Pulestrina, Musica Princeps

Some of his pieces are still performed, particularly his Fraires ego enia accept, with the Stabat Mater and the Impropria,

in the Sistine chapel at Rome.

PALEY, William, a celebrated divine and philosopher, the son of a clergyman, who held a small living, near Peterborough, was born in 1743. He was instructed under his father, who became master of a grammar school in Yorkshire, . whence he was removed as a sizar to Christ-church college, Cambridge. He soon obtained a scholarship, and, in 1763, having highly distinguished himself as a disputant on questions of natural and moral philosophy, took his first degree. He was afterwards employed for three years as an assistant to an academy at Greenwich, and, in 1766, was elected a fellow of his college, and appointed one of its autors. The lectures which he then delivered on the Greek Testament and on moral philosophy, contain the outlines of the works by which he subsequently obtained celebrity. In 1767, he took priest's orders, and maintained an intimate acquaintance with the most eminent persons in the university, who falling below the established standard of orthodoxy, Mr. Paley began to be regarded with coolness by its zealous defenders. His friends could not, however, persuade him to sign the petition for relict in the subscription to the Articles, on which occasion he observed, that "he could not afford to keep a conscience." In 1776, he quitted the university, and was inducted into the vicarage of Dalston, in Camberland, to which was soon after added the living of Appleby, and a prebendal stall in the cathedral of Carlisle. In 1782, he was appointed arch-deagon of the diocese, and, not long afterwards, succeeded doctor Burn in the chancellorship, for all which preferments he was indebted to the bishop of Carlisle. In 1785, he published his Elements of Moral and Political Philosophy—a work of much simplicity and pertinence of illustration, but exceptionable in many of its definitions and principles, both in politics and morals. In 1787, Paley published his Hora Paulinæ, the chief object of which is, to bring together, from the Acts of the Apostles. and the epistles, such passages as furnish examples of undesigned coincidence, and thus prove the authenticity of the scriptural writings. In 1794, he published his View of the Evidence of Christianity, in three parts, which contains a popular view of the arguments for the truth of the Christian religion, drawn up with his " usual perspicuity and dialectic skill. He:

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was soon after made a sub-dean of Lincoln, and received several valuable livings. In 1795, he was created D.D. by the university of Cambridge; and, his health not allowing him to officiate in the pulpit, he andertook the compilation of his Natural Theology, or Evidences of the Existence and Attributes of the Deity, collected from the Appearances of Nature (8vo., 1802). He died in 1805. Doctor Paley was fond of anusement and company, and displayed much wit and humor. No manwas more beloved by his friends, or evinced more attachment to them in return. Since his death, a volume of his sermous has been published in 8vo.

Pall. (See Indian Languages.) POLIMESESTS, re-written manuscripts (codices rescripti, from nake and tow), have, in modern times, by the successful exertions of signor Maio (see Codex, and Maio) .. to discover the contents of the original writings, greatly attracted the attention of philologists, and we may hope that the great collections of manustripts at Rome. Naples, Oxford, Cambridge, &c., which have been little examined, will yet afford us many remains of ancient literature which have escaped the general wreck. On account of the dearness of writing materials in the time of the ancients, it was very natural that they should seek means for rendering serviceable, a second time, the parchment or Egyptian papyrus which had been already used. A preparation for effacing the original writing was known even in the time of Augustus. The writing upon parchment could be scratched out, and a peculiar kind of knife (rasorium) belonged to the apparatus of a transcriber. The parchment scratched in this manner, was rubbed with punaice stone to render it more fit for writing. Fortunately the original characters have often remained legible, so as to be visible to the naked eye, of to appear very plain with the assistance of chemical agents. As the transcribers in the middle ages, when the want of writing materials was felt, in consequence of the great demand for missals,; &c., often divided the large sheets of written parchment, the second set of lines issometimes found diagonal to the first so that the old and new cross each other. or the old lines have remained above the others, as in the fragments of Ulphilas, the Phaeton, &c. The increasing zeal in thec. search for reinains of classic literature has directed the attention of learned men to these hidden treasures. Maio's discovory of Fronto, and the subsequent discovery of the fragments of the Phae-

ton of Euripides, and Ciccro's books De · Republica, Niebuhr's discovery of Gains, together with the results of the labors of Peyron and others, have increased the in-terest of learned men in these investigations. (See Manuscripts.)

PALINDROVON; a verse or line which reads the same either forwards or backwards; e.g. that which is put in the mouth of Satan-Signa te, signa, temere nu tangis et augis (cross thyself, cross thyself, von touch and torment me in vain); or, Anna tenet mappam madidam, mulum tenel Odo.

Palandenesy; Greek for regeneration. The word is used to designate the transitions from one state into another, observed with insects, and in each of which the insect appears in a totally different form.

PALINODY; a recultation, particularly a poetical one, of any thing dishonorable or false attered against another person. Thus the ancient poet Stesichorus wrote a palinody of his poetical invective against Helena, for which he had been punished by blindness, and declared all the charges

contained therein untrue.

Palasures; pilot of Æners in his voyage to Italy, and son of Jasius. cording to the celebrated poem of Virgil, the god of sleep, under the form of Phorbas, scaled his eyes in slumber, and threw him into the sea, at the very moment when the ship was reaching the desired shore. Æncas saw his lost companion, when the shades of the lower world passed be- fore his eyes, and Palimurus related to him how he had been saved from the water, but slam by the Lucanians, on the southern coast of Italy. The Lucanians, being afterwards tormented by a pestilence, raised a monument to his honor, to pacify his manes, and consecrated a grove do him. Mount Palinurus was named after him.

Palasanes; stakes, eight or nine feet long, and six or seven inches square, and sharpened at the end, which are set in the ground either perpendicularly or obliquely, for the greater security of a fortification. particularly for the closing up of an open passage to the works, or the protection of 'any exposed point, previous to an attack.

Palisor de Brauvais, Ambroise Marie François Joseph; an eminent naturalist, born at Arras, in the French Nethcriands, in 1752. He studied at the college of Harcourt, at Paris, and, in 1772, was admitted a counsellor of the parliament of that city. Some time after, he succeeded his elder brother as receivergeneral of territorial imposts, which office was attpuressed in 1777. He then de-

voted his attention entirely to natural hisfory, and especially botany, and, in 1781, became a corresponding member of the Parisian academy of sciences, to which he addressed several memoirs on botany and vegetable physiology. love of science induced him to undertake a voyage to the coast of Guinea, with an intention to travel across the African continent to Egypt; but he was unable to execute that design, and, after remaining some time at Owara and Benin, he sailed for St. Domingo, and arrived at cape Français, in June, 1788. He continued there some years, occupying official situations in the colony; but his opposition to the revolutionary attempts of the negroes having endangered his safety, he with difficulty effected his escape to Philadelphia, in the U. States. Thence he purposed to return to France, when he learned that he had been proscribed as an emigram. He was obliged to support himself as a teacher of languages, and by exercising his talents as a musician, till the arrivabof the French minister Adet, who was bimself a man of science, and who afforded Palisot the means of prosecuting inquiries into the natural history of America. He was employed to arrange Peale's collection, and made scientific tours to the Appalachian mountains and the country beyond. At length, he received the news of his name being crased from the list of emigrants, and returned to his native country, taking with him the rich collection of natural curiosities which he had formed. In 1806, he was admitted into the institute in the room of Admison; and he became a member of other learned societies. He died January 21, 1820. Among his principal works are Flore d'Oware et de Bénin (Paris, 1804-21, 2 vols., folio); Insectes recuillis en Afrique et en Amérique (1805-21, tolio); Essai d'une nounelle Agrostographie, ou Nouveaux Genres des Graminies (1812, 4to. and 8vo.); all which are illustrated by engravings.

Palla; a long garment of the Roman women, which hung down to the feet, and was worn over the other dress. When long enough, they threw part of it over the left shoulder, and held it fast under the arm. At funerals it was black. Tragic . actors also were the pulla.

Pallanto, Andrea; one of the greatest classical architects of modern Italy, whose works of art and writings alike contributed to improve the taste of the age in which he lived, and direct the genius of posterity He was born at Vicenza, in the Venetian territory, in 1518, and, after having studied

under Trissmo, he went to Rome, where he nequired a maturity of skill and science from an examination of the productions of ancient and modern art which that capital afforded. Rejurning to his native country, he established his fame by his thesigns for many noble edifices both there' and in other parts of Italy, which have afforded models for some beautiful strucparis in England, as well as other parts of Europe. Palladio belongs to the masters who, in the sixteenth century, by the study of the works of Roman architecture, created a new era in architecture. Among many splendid works executed from his designs and under his direction, the theatro degli Olimpici, in his native place, is the most brilliant proof of his talents. Venice also owes to him many of her finest buildings. The villa built by lord Burlington at Chiswick (but since enlarged by James Wvait) was from a design of Palladio, as was also a bridge at Wilton, the seat of the carl of Pembroke, in Wiltshire. majestic simplicity of antiquity was always present to his mind, and Algaratti called him the Raphael of architects. But this great architect is best known in the present age on account of his published works, especially his Treatise on Architecture, in four books, which first appeared in a Jolio volume, at Venice, in 1570, and has been many times reprinted. best edition is that of Vicenza, 1776-83. 4 vols. It has also been translated into French and English. James Leoni, an . Italian architect, published Palladio's Architecture in English, with the notes and remarks of Inigo Jones, and engravings by Picart (London, 1712, 2 vols., folio); an . some of the designs of this architect were published by lord Burlington in 1730. Palladio was likewise the author of an Italian work on the antiquities of Rome (Venice, 1394, and Rome, 1509, 8vo.), and of Illustrations of the Commentaries of He died at Viceuza, in 1580. Chanuy and Amed. Beugnot have pullished Palladio's Gueres Completes, with plates and notes, at Paris, 1827 seq., in 20 numbers, folio. (See Remanza's Lives of Venetian Architects and Sculptors.\

Palladium; a wooden image of Minerva (Pallas), which is said to have fallen from heaven, and to have been found by this, who placed it in a temple in his new city (Ilium): It was believed by the Trojans, that their city would be invincible so long as it contained the Palladium. Ulyrses and Diomedes, to remove this impediment to the capture of the city, are

said to have carried it off. The Romans, however, pretended that it was brought to Italy by Æneas, and preserved in the temple of Vesta, at Rome. It was con-'s ered so holy, that even the puntifex maximus did not dare to look upon it. Other cities, however, claimed to have possession of it. The term palladium has figuratively acquired the sense of

bulwark, protection, sanctuary.

PALLADIUM: the nume of a metal discovered by doctor Wollaston, associated with plating ore, among whose grains it exists alloyed with iridium and osmium, in grains still more minute than those of the platina. The process of separating it from the substances with which it occurs, is too long to be detailed here, and must be sought in the larger chemical treatises. When pure, it is of a grayish white color, and is scarcely distinguishable from platina. It is ductile and very malleable: in hardness, superior to wrought iron, and possessed of a specific gravity of 11.8. a less perfect conductor of caloric than most metals, and less expansible, though in this it exceeds platina. On exposure to a strong heat, its surface undergoes a tarnish, and becomes blue. Its melting point is higher than that of gold; but it. touched, while hot, with a small piece of sulphur, it runs like zinc. The sulphuret thus formed is whiter than the metal itself, and extremely brittle. Nitric acid soon acquires a fine red color from palladium, but the quantity which it dissolves is small. Sulphuric and muriatic acid act in a similar manuer. Nitro-muriatic acid however, dissolves it rapidly, and assumes a deep red color. Alkalies and earths throw down a precipitate from its solutions, generally of a fine orange color. Alkalies act on pulladium even in the metallic state; the contact of air, however, promotes their action. A neutralized solution of palladium is precipitated of a dark orange or brown, by a recent muriate of tin; but if it be in such proportions as to remain transparent, it is changed to a beautiful emerald-green. Green sulphate of iron precipitates palladium in a metal-Sulphureted hydrogen pro-" lic state. duces a dark-brown precipitate; prussiate of potash, an olive-colored one; and prussiate of mercury, a yellowish-white. As the last does not precipitate platina, it is a good test of palladium. This precipitate is from a neutral solution in pitric acid, and detonates at about 500° Fahr., in a manner similar to gunpowder. All the metals, except gold, silver, and platina, precipitate it in the metallic state.

PALLAS, Peter Simon, imperial Russian counsellor, celebrated for his travels, particularly in that empire, and for his numerous observations and discoveries made 'his own expense, was the work ontitled there, horn at Berlin, 1741, was the son of a physician, and chose the study of medicine, with the purpose of devoting himself only to the natural sciences, particularly to natural history. For this object, Holland then offered the largest collections and the best instructers. He therefore went to Leyden, and published there, in 1760. his dissertations on the Entozoa. He atforded important aid to Volkmann, who was arranging the splendid collection of natural curiosities in the Hague, belonging to the stadtholder, and became so skilful in the art of arranging and describing collections of natural history, that, after he had visited England, he was employed in superintending the arrangement of cabinets in this department, and was thus enabled to publish his Elenchus Zoophylorum (still a classical work on zoophytes), and his Miscellanca Zoologica [1760]. He then returned to Berlin, and began to publish his Spicilegia Zoologica, which reached its fourteenth number. The empress Catharine was at that time secking for a naturalist to explore her immense empire. In 1768, Pallas was invited to Petersburg as academician, and performed his first journey through severat provinces of Russia, the Journal of which was published at the expense of the empress (Petersburg, 1771-76, 4to . In 1777, he became a member of the committee for the measurement and topography of the Russian empire. the mean time, botany had become his favorite study, and he made several exrintsions into various provinces of the empire to examine their plants, The magnificent Flora Rossica, begin at Petersburg in the early part of 1785, but afterwards dropped, was the first fruit of these botanical tours. No part, indeed, of the history of nature or man was untouched by him, as is manifest from his Historical Collections; his New Essays on the North; his excellent lcones Insectorum, and his Contributions to the Glossary of all the Languages and Dialects of the Russian Empire. In 1785, he was made 'a member of the imperial academy of sciences at Petersburg, and knight of the order of Wladimir, and, in 1787, historicographer to the admiralty college. As it was his desire to reside in Taurida, the empress gave him several estates in the ... most fertile portion of the south of the peninsula, and, after 1796, Pallas lived

at Sympheropol with a large income, One of the fruits of his last journey, which he undertook with Geisler, of Leipsic, at Remarks on a Journey through the Southern Governments of Russia (Leipsic, 1799 and 1801, 2 vols., 4to.). second part of this book is devoted exclusively to the Crimeo, which was thus first completely laid open to us. Besides . fourteen numbers of the Species Astragalorum, which may be regarded as a monument of that journey, we will mention, on account of its interesting views, his Observations sur la Formation des Montagnes et les Changemens arrivés au Globe, particulièrement à l'Égard de l'Empire Russe. The residence of Pallas in Taurida was disturbed by the lawlessness of the natives. Soon after the death of his wife, he made great sacrifices to visit an elder brother at Berlin, where he died, Sept. 8, 1811. A part of his valuable collections he bequeathed to the university of Berlin.

Pallas. (See Minerva, Planets, and Olbers.)

Patter; among painters, a little oval tablet, or piece of wood or ivory, very thin and smooth, on and round which the painters place the several colors they have occasion for, to be ready for the pencil. The middle serves to mix the colors on, and to make the tints required in the work. It has no handle, but instead thereof a hole at one end to put the

thumb through to hold it.

PALLIUM, or PALL; the woollen mantle which the Roman emperors were accustorned, from the fourth century, to send to the patriarchs and primates of the empire, and which was worn as a mark of ecclesiastical dignity. In the fifth century, the patriarchs, with the consent of the emperors, began to send the pall to the archbishops, on their entrance into their dignity, and they were obliged to wear itwhile discharging the higher functions of their office. It became customary, however, to regard the giving of the pullium to archbishops as a sign that their election was confirmed by the patriarchs; and the council of Constantinople, in 872, decreed that all archbishops should be confirmed by their patriarchs, either by the imposition of hands, or by the sending of the pull. The popes possessed them-selves of the right of confirmation in the West, and, at first, required of the archbishop, who was invested with the pall, only a written promise of canonical obedience to the papal see; but, from the tenth century, exacted a considerable tax

increase of this tax, the pallium was, until lately, regarded as an indispensable mark of confirmation by the pope, and was sent to every archbishop, and to some of the principal bishops, when entering upon their office. Since the twelfth century, it has consisted of a white woollen band or fillet, three or four fingers broad, which is thrown over the shoulders outside of the sacerdotal vestments; one band hanging over the back, and another, somewhat longer, over the breast, and both are ornamented with a red chaplet. This ornament, as simple as it is costly (a sum equal to \$14,000 or 15,000 was sometimes paid for it), is made by the nuns in the convent of St. Agnes in Rome, from the wool of consecrated sheep, and is buried with its wearer.

PALL MALL. (See Mall.)

PALM. John Philip, a citizen and bookseller of Nuremberg, whom we mention because his fate contributed not a little to increase the hatred of the German's against - palm, taken from the length of the hand, the French, and to sharpen their weapons against Napoleon at a later period. Palm was born in 1766. In the year 1806, his escablishment sent to various other bookselling houses a pamphlet, entitled Ger-' many in her deepest Humiliation, on the whole a superficial work, but containing bitter attacks on Napoleon and his troops in Bayaria. Palfa asserted, to the last moment of his life, that he had no knowlodge of the work, which was sent to him to be forwarded, as is customary in Germany. The police of Napoleon, which was spread all over Germany, learned the fact that Pahn had forwarded it. He requested a judicial investigation from the authorities at Nuremberg, but it was refused. Being afterwards at Munich, he received information from his wife that he was prosecuted. Though he might have fled, he returned to Nuremberg. He now, however, found it necessary to conceal himself. A beggar boy appeared at his house, and requested to see him in order to get alms. Palm gave him something, and immediately French gens d'armes entered and seized him. Soon after, he was carried to general Bernadotte, in Anspach, where a trial was again refused, because, as the aid-de-camp of the marshal said, his arrest was the consequence of a direct order trom Paris. He was sent to Brunau. Berthier declared that nothing could be done for him, though the most respectable people interfered for him. The process though the sentence states the contrary,

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on investigare. Notwithstanding the great, and the whole trial was carried on by an interpreter. The unhappy man was condenned to death, because he could not say who had sent the parcel containing, the paraphlet, in which, however, no call for insurrection or assissination was to be found. He expected the news of his liberation, when his door was opened. August 26; but it was to announce to him the order for his execution. St. Hilaire declared that none could pardon but the emperor himself, if he were present; he, it was said, had ordered the immediate execution of the sentence. Officers of high rank, however, have declared, that not Napoleon, but Berthier, is chargeable with this outrage. It had been proved that Palm had: not sold one copy of the pamphlet. Palm was not the only German shot after hasty military trials ordered by the French marshals.

Palm; an ancient long measure, taken from the extent of the hand. The Ro-The great man palm was of two kinds. answered to our span, and contained twelve digits or fingers' breadths, or nine Roman inches, equal to about eight and a half English inches. The small palm. from the breadth of the hand, contained four digits or tingers, equal to about three English inches. The Greek palm, or doron, was also of two kinds: the small contained four fingers, equal to little more than three inches; the great palm contained five fingers: The Greek double palm. called dichas, was large also in proportion. The modern palm is different in different places where it is used. It contains, at Rome, eight inches three and a half lines: at Naples, according to Riccioli, eight inches: according to others, eight inches seven lines; at Genoa, nine inches nine lines; at Morocco and Fez, seven inches two lines; in Languedoc, and some other parts of France, nine inches nine lines: the English palm is three inches.

* PALM, the tree. (See Palms.) PALMA, Giacomo, surnamed Vecchio (the old), a pupil of Titian, and one of the most famous painters of the sixteenth century, was born at Bergamo, in 1518, and died between 1564 and 1574, at Venice, which possesses excellent pictures by him (e. g. the St. Barbara).

PALMA. (See Canaries.) Palma. (See Majorca.)

PALMA CHRISTI; a name frequently applied to the castor oil plant.

Palmella, dom Pedro de Sousa-Holwas hurried, no counsel allowed to Palm, stein, marquis of; a distinguished Portuguese minister. During the negotiations,

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at Bayonné, in 1808, Napoleon ence hastily addressed to the count Palmella the question, "Are you Portuguese ready to become Spanish?" "No; sire," replied the count in a firm tone. Far from being displeased with this frank and laconic answer. Napoleon said to one of his officers next day, "The count Palmella gave me a noble no vesterday." Palmella was plempotentiary of Portugal at the congress of Vienna in 1814, and member of the general committee of the eight powers which signed the peace of Paris. In 1815, he was present at the congress in Paris. When lord Castlereagh demanded the abolition of the slave-trade, at Vienna, in February, 1815, Palmella declared that Portugal would consent to its abolition after eight years, on condition that England would yield some points of the treaty with Portugal of February 19, 1810. March 13, 1815, he subscribed the declaration against Napoleou, and soon after was anpointed ambassador to the British court. In 1816, he was made secretary of state for foreign affairs in Brazil. In 1818, he went to Paris for the purpose of settling with the Spanish ambassador, count Fernan Nunez, the dispute concerning the evacuation of Monte Video. On the breaking out of the revolution in Portogal, the cortes gave him permission to travel; but after the overthrow of the constitution, May 27, 1823, the king nurusted to him the department of forcign affairs and the presidency of the title of marquis. ministry, with the (See Portugal.) By the royal command. a junta, of which Palmella was president, drew up the constitutional charter, nearly the same as that which dom Pedro granted to Portugal April 23, 1826. This sagacious and moderate minister by this act rendered himself obnoxious to the queen and to the generalissime of the army, dom Miguel, as well as to the apostolical junta and the absolutists in Spain. The king The situatherefore rejected the plan. tion of the marquis of Palmella, already rendered difficult by the efforts of the French and English ambassadors, Hyde de Neuville (q. v.) and sir E. Thornton, to gain over the Portuguese cabinet to the policy of their respective courts, was be-, come yet more so by the separation of Brazil from Portugal. April 30, 1824, the Infant dom Miguel caused him to be arrested; but, John VI having been suc-"the designs of the Infant, Palmella was set at liberty, and restored to his place. Count Subserra (Pampluna), minister of

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war, had now become first minister; and the Portuguese cabinet vacillated between the British system, supported by the former, and the French system of the latter. January 15, 1825, the cabinet was finally . dissolved, and Palmella was sent ambassador to England. The death of John VI was followed by the dissensions relative to the constitution granted to don: Pedro. British troops arrived in Lishon, and the ministry was changed to meet the views: of the constitutionalists. Palmella was nominated minister of foreign affairs in June, 1827, and returned to Portugal early in 1828. But the change which immediately after took place in favor of the absolute party, and the ascendency of the, Miguelites, prevented him from entering upon this office. (See Miguel. Pedra, Partugal.)

Palmetro. In the Southern States this name is frequently given to the cabbage-tree, a species of palm, growing along the Atlantic coast from about latitude 35° to the extremity of Florida. It attains the height of forty or fifty feet, and is by far the tallest, as well as the most northern, of our palms. The summit of the stem is crowned with a tuft of large palmated leaves, varying in length and breadth from one to five feet, and supported on long foot-stalks, which give it a beautiful and majestic appearance. Before these leaves are developed, they are folded like a fan: at their base and in the centre of the stem are three or four ounces of a white, compact and tender substance, which is eaten with oil and vinegar, and somewhat resembles the cabbage in taste. but is neither highly nutritious nor peculiarly agreeable, and its removal moreover. canses destruction, to a vegetable which has perhaps been a century in growing. The flowers are small, greenish disposed in long clusters, and are succeeded by a black inesculent fruit, about as large as a pea. The cabbage-palm in the U. States appears to be confined to the immediate vicinity of the sea. Michaux, however, mentions two stocks observed by him in Florida, at the distance of forty or fifty miles in the interior. The same author met with it in Bermuda, and supposed it to be found in the Bahamas and along the shore of the gulf of Mexico: but it is unknown in Louisiana, and we cannot find ? that it has since been observed beyond the limits of the U. States. The wood, cessful in maintaining his authority against; though extremely porous, in the Southern States is preferred to every other for the construction of wharves, on account of its being scenre from the attacks of seaevorms; and has been found peculiarly suitable for the construction of forts, as it closes, without splitting, on the passage of a ball. The slowness of its growth will always discourage its propagation.

Palves; a natural family of plants, the pride of tropical climates, and which, more than any other, contributes to give a peculiar and imposing character to the vegetation of those regions. Their lofty, straight and unbranching trunks, crowned at the summit by a tuft of large radiating leaves, gives them an aspect entirely unique, and far surpassing that of other trees in majesty. Aside from grandeur of their appearance, many of them hardly yield to any other vegetables in useful properties. The species are numerous, but are not well understood; and many fruits exist in collections which cannot be referred to known genera .---They belong to the monocotyledonous division of plants, and have their parts arranged in threes, or one of the multiples of that number. The calyx has six divisions, more or less profound: the stamens are six in number; and the fruit consists of a berry or drupe, composed of a substance sometimes bard and scaly, but more often fleshy or fibrous, surrounding three, or, usually, a single, one-seeded mut. The stem is simple, or very rarely branching, and is sustained by a mass of tibrons roots at the base. Though usually attaining the stature of a tree, and sometimes ascending to a very great height, in some species, the stem rises only a few inches above the surface of the ground. This stem is cylindrical, but, internally, the fibres are arranged in fascicles, and not in concentric circles, as with trees generally, The centre is soft, while the circumference is firm and hard like horn. In these respects, the palms are analogous to other 'monocotyledonous vegetables. This stem is covered externally with the sheaths of the fallen leaves, or with their cicatrices, and is terminated by a tuft of pinnate or flabelliform leaves. From the midst of these arises a simple or branching spadix, on which the superous small flowers are disposed, and at first is enveloped in one all spathæ, or sheaths.—
Many alms appear to be confined within the limits, and it has been re-acters by striking peculiarities of soil or charte, it appears to be inhabited by peculiar species. All the palms are not strictly confined within the tropics, but a few inhabit the warm regious on their

U. States: of these, the palmetto, or enbage-tree, extends along the Atlantic coast as far north as lat. 35°: the others are dwarf, and are confined to more southern latitudes. Among the more useful of the palms may be meutioned the cocoa-nut, the sage and the date.

PALMS, ORDER OF. (See Fruit-bouring

Society.)

Palm Sunday: the last Sunday before Easter, on which Christ's entry into Jerusalem, when palms were strewed before him, is celebrated. Formerly, a wooden ass, with the figure of Christ on it, was drawn on rollers in procession, because Christ entered Jerusalem on an ass. It is still celebrated with much solemmity by the Catholics, and branches are strewed in the churches.

PALMYRA; a Syrian city, famous in an cient times, capital of Palmyrene, which for a short time formed a powerful state. It was at an early period called Tud-mor (the city of palms), of which the Latin name is a translation. The origin of this city is of remote antiquity. It was important as the bulwark of Judaea against the wandering tribes from the Euphrates; and, as the emporium of the commerce of Eastern and Western Asia, it was a large and opplent city in the time of Trajan, who subjected the whole province to the Roman power. It was situated in a valley with a southern exposure, in the midst of a beautiful palm grove in the desert. It was adorned with magnificent palaces, whose ruins, though it has been twice destroyed, still excite admiration. It was sacked for the first time under the reign of the celebrated Zenobia, by the emperor Aurelian, in 275, and a second time by the Saracens, in 744. In the middle of the eighteenth century, the ruins were discovered by Wood and Daw-, kins, and described in the magnificent work of Wood, the Ruins of Palmyra. Among the rains are a great number of beautiful columns, ruins of temples and towers, all admirably wrought of marble. Many Greek and Palmyrene inscriptions,. and one in Latin, increase their value. The most beautiful monument is a temple. of the suu, which is also in the best pres-ervation. Palmyra, under its old name (Tadmor), is now a village in the desert of Syria, and some poor families have built their huts amidst its magnificent ruins.—See St. Martin's Histoire de Palmyre (Paris, 1823).
PALOMINO DE VALASCO, Aciscle Anto-

tew inhabit the warm regions on their nio, one of the most distinguished painters borders. Five species are found in the of Spain, was born at Bajalance, near Cor-

dova, in 1653. He studied in the latter place, but, as his inclination led him to cultivate the arts, he placed himself under the painter Valdes. In 1678, he went to Madrid, where, in the reign of Philip IV, many distinguished artists resided. Palomino was presented to the king by the celebrated Coëllo, and was employed by the former to execute the frescoes in the gallery del Cierzo in the Prado. This commission he executed with so much success, that he was appointed courtpainter, with a considerable pension. In Valencia, Salamanca; Granada and Cordova, to which he was successively invited, he executed numerous works which were highly esteemed. His son assisted him in some of his productions. It has been objected to Palomino that his figures, even in his most elevated compositions, partake too much of the character of common life; but his coloring and perspective are admirable. He died at Madrid in 1726. He is the author of a history et Spanish painters. El Musco pictorico, y Escala optica (3 vols., Madrid), of which the third volume, containing an account of the most distinguished Spanish artists. has been translated into French (Paris, 174:2). Quilliet, in his Dictionnaire des Printres Espagnols (Paris, 1816), borrows much from Palomino.

Paros; a small town of Andalusia, in Spain, where Columbus fitted out his ships, and whence he sailed, on his first voyage for the discovery of the new world, in 1492. Here, also, is the convent, at the gate of which Columbus appeared as a poor stranger, and asked bread and water for his child. It is now almost described, being on apied by a few hundred inhabitants. It lies on the Tinto; lon. 6° 58' W.; lat. 37° 10' N. (See Irving's interesting account of his pilgrimage to Palos, in company with a descendant of the Pinzon family, in the appendix to his Yoyages of the Companions of Columbus.)

Palsy, Paralysis; a nervous disease, known by the loss or diminution of the power of voluntary motion, and sometimes of sensation, in one or several parts of the body. (See Nervous Diseases.) It appears under different forms: sometimes it attacks the whole system; at others, it affects one side of the body (hemiplegia), and at others a single member. causes of palsy are numerous, but their mode of action is not clearly ascertained. The action of cold on the body in a heated state, a violent physical or moral excitement, or the suppression of an ordinary it is difficult, and rendered dangerous by

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introduction of metallic substances, particularly lead or copper, into the system, often brings on incurable palsy. paralysis of the vital organs is attended with immediate death; and, when the head is attacked, the memory and judgment are often impaired.

PARCS MEOTIS. (See Asoph.)
PARLICO, called also TAR RIVER, in North Carolina, passes by Tarborough, Greenville and Washington, and runs south-east into Pamheo sound; lat-35° 22' N. It is navigable, for vessels drawing nine feet of water, to Washington, forty miles, and for boats currying thirty or forty hogsheads of tobacco to Tarborough, ninety miles.

Pamiaco Sound; a large bay on the coast of North Caroline eighty-six miles long and from ten to twenty broad. It is separated from the sea by a sandy beach, hardly a mile wide, which is covered with bushes. It communicates with Albemark sound. Ocracoke is its principal outlet.

Pampas: yast plains in the southern part of Buenos Ayres, extending from the do la Plata nearly to the Andes, 750 miles in length by 450 in Lreadth. A part is covered with grass, affording excellent pasturage; and another portion, at the foot of the Andes, forms an immerse forest, which, however, is easily passable in all directions. Herds of horses and cause in a wild state, feed in these wide plains. Several beasts of prey infest them, and the bisacho, a small animal, burrows like the The inhabitants are the Gauches who are of Spanish origin, but who lead a life of wild independence, fiving on horse back, eating nothing but jerked beef, and drinking nothing but water, hospitable and generous to the traveller, and protessing the Catholic religion; and, to the south, fierce tribes of mounted Indians. , who lead much the same kind of life as the Gauchos, with whom they are perpetually at war. Armed with his lasso, or leather strap, the Gaucho, or pampas Indian, rides on horseback, and, with great dexterity, throws it round the neck of a wild horse, bull, or other animal which he wishes to take, by a sudden jerk: throws the animal to the ground, and gal-lons off with his booty. There is a route across the pampas from Buenos Ayres to Chile, on which is a chain of cabins, called posts, seven or eight leagues distant from each other. The journey is performed on horseback, or in a wheeled carriage; but evacuation, sometimes produces it. The robbers and the Indians. - The pamperos

are violent winds from the west or southwoften do much injury on the coasts. Head's amusing Journey across the Panipas (London, 1826) gives a very spirited and picturesque account of his gallop . through this immense wilderness of grass and water.-Pampas del Sacramento are vast plains, similar to those above described (about 60,000 square miles), in the northern part of Peru. They abound in vegetable productions, but are infested with troublesome or dangerous insects and reptiles. 'They are inhabited by difterent native tribes. (See Llano.)

PAMPHLET. There are several derivations of this word, most of which are The most probable is much strained. that which considers it as coming from the phrase par un filet (on a thread), whence the word is written, anciently, and by Custon, paunflet, properly denoting a book sold unbound, and only stitched, as the French brochure. The German Flugschrift (fugitive publication) is more significant. Pamphlets are not of recent origin: they were early used under the name of libelli, in religious *controversies. They are generally intended for immediate effect. Political pamphlets may be considered as the shells used in party warfare, while newspapers more resemble the common weapons. They generally bear the imprint of the excited spirit of the time. When their object is scientific or religious, they exhibit that sort of information on these subjects which it was thought expedient to present immediately to the public. They are of great interest to the historian, but, like newspapers, he must use them with great caution. It is highly important that public libraries should collect and preserve such publications; oth-· erwise they are generally lost. Myles Davies has written an Icon Libellorum, or a critical history of pamphlets. (See, also, D'Israeli's Curiosities of Literature.)

PAMPLONA, or PAMPELUNA (anciently Pompelo, or Pompeiopolis); a city of Spain, and capital of Navarre, situated on the Arga, in a plain near the Pyrences, founded by Pompey; 78 miles north-west of Saragossa, 172 north-east of Madrid; Ion. 1° 41′ W.; lat. 42° 50′ N.; population, 14,054. The town is strongly fortified, surrounded by walls, and has two castles, a cathedral, thirteen monasteries, four hospitals, and a college. It is situated in a fertile and well cultivated country, but has few manufactures. It was taken by general Lauriston (q. v.) in 1823.

PAN; an Arcadian rural divinity, son

of Hermes and a nyinph, or of Penelope, . west, which sweep over the pumpas, and He is represented as old, with a crooked nose, two horns, pointed ears, a goat's beard, goat's tail, and goat's feet, with a pipe (see Syrinx), and currying a crooked shepherd's staff. He was first worshipped at Athens, after the battle of Marathon, in which it was pretended that he had assisted the Athenians. This shepherd god was afterwards made the allsupporting god of nature, and personified the universe (ro nar; compare Servius on Virgil, eclogue ii, 31). He was also introduced into the earlier fables, as in that of the battle of the Titans. He distinguished himself in musical contests, and by playing on the pipe, which he invented, and with which he contended for the prize with Apollo. (See Syrinx.) Some appear to have honored him also as the inventor of the flute of reeds. Pan is the protector of the herds at pasture, of wild beasts, of fishes, and takes care of the bees of the husbandman, on which account, milk and honey were offered to him. Evander is said to have introduced his worship into Italy. He was here considered as corresponding to Faunus, and several festivals were celebrated in his honor, as the Lupercalia, in honor of Pan Lupercus. the protector against wolves. From Pan comes the expression panic fear. According to Plutarch, it was the Pans and Satyrs dwelling at Chermos who first announced the death of Osiris, and thereby caused so much terror that, since then, every sudden, groundless fear has been called panic. According to Polyanus, Pan saved the army of Bacchus from great danger by a wild scream, a thousand times repeated by the echoes of the woods and rocks. In the battle of the Titans, Pan terrified the enemy by blowing in a sea couch. The ancients believed that great armies were often struck during the night with a sudden terror, caused by some god or demon to punish presumption.

PANACEA; a daughter of Esculapius (q. v.); the goddess of healing. She is an allegorical creation of poets and artists. Her name (Havanua) signifies the "allhealing;" hence panacea, a universal rem-

edy. PANAGIA; the Greek name for the picture of the Holy Virgin, of which the Greek Catholics have one in every house, on board of vessels, &c., before which

candles are kept burning.

PANAMA; a city of Colombia, capital of the department of the Isthmus (New, Grenada), on the bay of the same name.

lat. 8° 58' N.; Ion. 79° 27 W.; population, 20,000. It contains a college, numerous hospital, &c. The roadstead is exposed to violent north winds, and the bay is so, to the person. He died in 1765. His Smallow that ships are obliged to remain several miles below the town, and discharge by flat-bottomed boats. The commerce, however, is considerable, principally with the English of Jamaica, and the North Americans. The pearl fishery furnishes a yearly export to the value of above \$40,000. The commerce of Panama was very flourishing while the Spanish intercourse with South America was carried on in the galleous; but it has since declined. The clintate is unhealthy, and the heat excessive. (Sec Congress.)

PANAMA, CONGRESS OF. (See Con-

gress.)

Panama; Isrames or. The result of a series of levelings, carried across the isthmus in 1829, by Messes, Lloyd and Falmark, in the employ of the Colombian government, enables us to correct some statements in the article Darien. From the Account of Mr. Lloyd, communicated to the royal society in 1830, it appears that, in the narrowest part of the istlanus, there is a break of several miles in the great chain of the Andes, porticularly beween Chagres and Chaine, where there are extensive plains, not more than 300-500 feet in height. After 935 pair of levelings from Panama to La Bruja, near the mouth of the Chagres, it was found that high-water mark in the Pacific is 13.55 feet higher than in the Atlantic; but that, as half tide, the level of the Pacific is the same with that of the Atlantic, and, at low tide, is several feet lower. These circumstances induced the Colombian government to conceive the plan of a canal from Panama to Puerto Velo, on the Atlantic side, which has a large and secure husbor, and is distant forty-three mile riorth-north-west from Panama. A rail-road between the two cities is already in progress.

Panaro, Charles Francis; a French poet, born about 1690, at Courville, near Chartres, where he had a trifling employ- nent, and lived some time in obscurity until the comedian Le Grand, having seen some of his pieces, encouraged him to write for the stage, in which department he became very successful. Marmontel calls him the "La Fontaine of the Vaudewriting and the simplicity of his character. His works are occasionally incorrect publications from the press, and matheand negligent; but they are always stamp-matical pieces, which he had sent to the

ed with nature, sentiment, wit, and good sense. He knew perfectly well how to churches and monasteries, a cathedral, an sharpen the point of an opigram; but his satire was always directed to the vice, not works were printed in four volumes, 12mo., entitled Theatre et Euvres diverses.

PANATHENEA; a festival celebrated at Athens, in honor of its tutelary deity, Minerva. Ericthonius, who instituted it (ae-; cording to some, Orphous was the foundcr), called it Alhenau; but, when Theseus united the inhabitants of twelve districts into a city, the festival received the name panathenca (from sar, universal), because it was thenceforth solemnized by all the tribes of Athens. The panathenau were 4. distinguished into the greater and the less in both of which three kinds of games were exhibited, conducted by ten presidents (alldothelm). On the first day were races with torches in the Ceramicus; on the second, gymnical exercises, and imitations of naval fights; on the third, contests of music and declamation, and dramatic representations. An olive crown, from the groves of Academus, and a vessel full of the finest oil, were the rewards of the victor. Then followed the sacritices, and the sacrificial feast. The greater panathenaa were distinguished from the less not only by their greater splendor and longer continuance, but particularly by the solemn procession, in which the peplus, a sacred garment, consecrated by young virgius, and made of white wool, and adorned with gold embroidery, representing the battle of the giants, was carried from the Acropolis into the temple of the goddess, whose ivory statue was covered with it. The peplus was also used in the panathencea as the sail of a ship, which was moved through the streets by secret machinery, and accompanied by a solemn procession. This festival was so holy, that criminals were released from the prisons on the occasion of its celebration, and gold crowns were conferred on men of distinguished merit.

PANCKOUCKE, Andrew Joseph; a book seller at Lisle, in Flanders, where he died in 1753, aged fifty-two. He was the author of several popular and useful compilations, and some original works.

PANCKOUCKE, Charles Joseph, son of & the preceding, was also a bookseller, and a man of letters. He was horn at Lisle in 1736, and, at the age of wenty-eight, settled at Paris, previously to which period, he had made himself known by some

His house became academy of sciences. the resort of the most distinguished au-. thors; and he conducted himself with great liberality to those with whom he was connected in his literary enterprises. He engaged in the publication of the Mercure de France, and various other periodical works, and established the Moniteur, under the direction of H. B. Maret, since duke of Bassano. He also formed the plan of the Encyclopedic Methodique, consisting of a number of distinct dictionaries of the various branches of art, science and literature, of which ninety parts had been published in 1822. Panckoucke He was the audied Dec. 19, 1798. thor of De l'Homme et de la Reproduction des differents Individus (1761, 12mo.); Traduction Libre de Lucrèce (1768, 2 vols., 12mo.); and other works.

PANCRAS; one of the many villages, which have, in course of time, become part of London; one mile and a half north of London Proper. In its well-known burial-place for Catholics, lie Paoli, the chevalier D'Eon (q. v.), Cavallo, Woollet,

PANCRATIUM; one of the contests of the ancient Greeks, in which all four kinds of fighting were used (see Gymnasium); also a contest in which no means of obtaining the victory were left untried, where the antagonists both wrestled and tought with the fist; also a fight for life and death.

PANDEMONIUM; a general temple for 'the gods and demi-gods of antiquity; an

assembly of demons.

PANDECTS (from sar, every thing, and δεχεσθαι, to include); a part of the corpus juris civilis. (q. v.) It consists of a collection, systematically arranged, from the works of Roman lawyers on jurisprudence, to which the emperor Justinian (by whose command the collection was made) gave the force of law, A. D. 533, at the same time declaring all the writings of the jurists, and collections of the law, which had previously been authorities, of no force. 11 They were also called digesta (from digerere, to arrange), because they were a collection of the scattered contents of many works. (See Civil Law.)

PANDEMOS; a Grecian surname of Venus. According to some authors, The-seus introduced the worship of Venus Pandemos at. Atheus, when he first collected into one whole the different tribes (input) of Attica. According to others, this surname arose from the circumstance that. the temple of Venus was situated in the market, the place of assembly of the whole

people (παντος δημου); according to others, still, because Solon built this temple with the money which the public girls were obliged to pay. But Venus was worshipped under this name in other places at an early period. The image of Venus Pandemos at Elis, riding upon a he-goat, by the side of that of Venus Urania, is worthy of notice. Venus Pauldemos here appears in opposition to celestial love, as a symbol of prostitution.

Pannit, in Hindoostan; a learned Brahmin; one versed in the Sanscrit language, and in the sciences, laws and re-

figion of the country.

Pannoons; the name formerly given to the Servian or Raitzian foot-soldiers, toming from the mountains in the neighborhood of the village Pandur, in the county of Pol, in Lower Hungary. They were at first irregular troops. In 1750, they were made regular troops. were formerly dreaded for their savage. mode of warthre.

PANDORA (from #qr, every, coper, gift); the first woman; so called because she re-ceived gitts from all the Olympians. Prometheus, driven from Olympus by Jupiter, had formed man, and animated him with fire stolen from heaven. The indigment father of the gods determined to punish the offence. He commanded Vulcanto form a woman of clay, equal to the goddesses in beauty and grace, and to give her life and the power of speech. The god executed the command. cording to other accounts, she was the creature of Prometheus, and the gods came down to see her, and conferred their gifts on her. Minerva instructed her in all works of female skill. Venus endowed her with beauty and fascination. Mercury inspired her with a desire of pleasing, and taught insinuating words. Minerva carried her thus equipped intothe assembly of the gods, and all admired the work. Jupiter, who presented to her a box or a chest, in which were contained all human woes, then sent Mercury to-Epimetheus, the brother of Prometheus, with the fatal present. Prometheus had warned him not to receive any of Jupiter's gifts; but the charms of the virgin t overcame bis caution. Till that time, man had lived free from evil, from oppressive labor, and from disease. But Pandora brought with her the whole host of calamities, which rushed out, and spread over the whole world. When Epimetheus, or, as some say, Pandors, had, out of curiosity, raised the cover of the box, which a divine command had for-

hidden them to open, Hope alone remained at the bottom of the box, which was suddenly closed by the rash opener; and she alone enables, man to endure his

miseries and hardships. ,

· Panegyric; a enlogy, either written or spoken, the object of which is to give a favorable representation of some person or thing. Historical truth is here so far rendered subordinate, that the author exaggerates the excellence of the subject, to inspire others with his own admiration. In the Grecian republics, this department of oratory was much cultivated, and the panegyric of Isocrates (q. y.), notwith-standing its artificial elaborateness, is a masterpiece of finished writing. In Roman literature, the best which we possess is the panegyric of Pliny the younger on Trajan, both in classical style and in rhetorical arrangement. The later Roman panegyrists of the third and fourth century, are valuable only to the historian who is seeking for facts. Among the moderns, the French have something similar in their *éloges.* (q. v.)

PANEL: a schedule or roll of such jurors as the sheriff returns to pass upon any trial; and impanelling a jury, is returning their names in such schedule of parchment. In Scots law, the prisoner

at the bor is the pand.

Panes, in joinery, is a tympanum, or square piece of thin wood, sometimes carved, framed or grooved in a larger piece between two apright pieces and

two cross pieces.

PANIN (NIKITA IVANOVITOR, count; Russian minister of state, born in 1718. His family was originally from Lucca, m Italy; his father was general-lieutement in the reign of Peter I. The young Paniu served, at first, in the guards of the empress Elizabeth, became chamberlain in 1747, was minister plenipotentiary to Copenhagen, and, two years afterwards, to Stockholm. On his return, he was made governor of the grand-prince Paul Petrovitch, and, when Catharine II ascended the throne, in 1762, was appoint-· ed minister of state. The war against the "Turks, to which the troubles in Poland gave rise; the exchange of the duchy of Holstein for the counties of Oldenburg and Delmenhorst (see Oldenburg), to the advantage of the younger line of · Holstein-Gottorp; the peace with the Porte in 1774; the mediation of Russia at the peace of Teschen; and, finally, the armed neutrality, were effected principally through his representations. All the

and foreign ministers, and the whole correspondence with foreign courts, were drawn up by him. He was the main support of the Prussian system in the Russian cabinot; but his influence over Catharine had much diminished towards the close of his ministry, while that of his adversaries had increased. (See Catharine IL) The principles on which ho conducted public affairs were, that a state must always maintain its own dignity, without the interference of others, and that it is unbecoming a powerful state to have recourse to dissimulation, and artifice, but that the most entire frankness should characterize all the measures of the ministry. His firmness was not to be shaken by threats or promises. He. always advised what he thought was for the best, and, in such a case, he opposed even his own mistress. He died in 1783.

PANNONIA, in ancient history; the country inhabited by the Pannonians, a . Thracian tribe, and situated between the Illyrians and Celts, on the northern side of the Eastern Alps. The chaperor Augustus first succeeded in conquering the Illyrious and Dahmatians; he penetrated. into the mountains of the Pannonians, and subdued them (A. D. 10). A dan-gerous conspiracy of this people against the Romans was suppressed by Tiberius. They appear to have afterwards settled, with the consent of the Romans, on the It was probably under the Danube. emperor Claudius that their country was first organized into a Roman province. Pannonia comprehends the eastern part of Austria and Stiria, all that part of Hungary (still called Pannonia) on the south of the Dangbe, a part of Carniola and Crontia, all Sclavonia, and a part of Bosnia, along the Save. It was probably Adrian who divided it into Pannonia superior or occidentalis (afterwards prima) and Pannonin interior, or orientalis (afterwards secunda). After the Marcomannic war, Pannonia was repeatedly ravaged by barbarians. It suffered still more at the time of the great migration of the nations. In the fourth century, the Vandals conquered a part of the country, and afterwards the . Goths. It was entirely conquered by the Huns under Attila. After the death of this conqueror, in 453, the kingdom of the Huns sunk back within its eastern limits on the Pontus. The Sarmatians, from whom are descended the Sclavonians of the present day, next settled on the mountains of Pannonia. Pannonia was also occupied, with the consent of the instructions of the military commanders, emperor of the East, by the Gepidee and English 以及其中的

Ostrogoths. When the latter migrated to Italy, the Lombards entered Pannonia. and subdued the Gopidæ, but, removing to Italy in 568, left the country to the Avars (see Avars), who were conquered by Charlemagne, and forced to embrace Christianity. Pannonia was finally conquered by the Hungarians, about the year

900. (See Hungary.)

Panorama (from nav, all, the whole, and όραμα, view); a perspective view of a town or natural scene, projected on the plane of the horizon, invented by Robert - Barker, an Englishman, in 1787. The panorania may be considered as the triumph of perspective. The artist, from a high point must take an accurate plan of the whole surrounding country, as far as the eye can reach. Truth of representation and closeness of imitation are the great objects to be aimed at in panoramas, and the delusion must be promoted by the manner in which the picture is put up and lighted. It is circularly disposed round the walls of a rounda, so that the spectator who is stationed in the centre, and prevented from approaching too near the painting, by a railing, finds himself, as it were, on the spot from which the view was taken. The light is admitted from above, without dazzling the spectator, from whom the aporture by which it enters is also concealed; and, as he sees no end to the pic- ture, in which all the parts are delineated in their true proportion to the whole, and with the natural coloring, the illusion is complete. Robert Fulion introduced the panoruma into Prance, and panorumic views of a great number of cities and natural scenes have been exhibited, within the last thirty years, in Eulope and The Blercorana (from origins, America. solid), or panstereorama, is a miniature representation, in relief, of towns and other objects, constructed of cork, pasteboard, or other light and flexible substances. The diorana was invented in France. and differs from the panorama chiefly in being flat instead of circular, and therefore presenting only a particular view, like any other picture, in front of you, and not all around. The manner in which the light is introduced is essentially the same as in the case of the panorama.

RANTALONE; a mask of the Italian comedy. (See Mask.) From him the pantaloons have their name, because he is dressed in wide, long garments of this sort.

PANTALOONS. (See Pantalone.)

PANTHEISM (from to may, the body of

man begins to think of the cause of things, he either separates the great original cause entirely from other existences (which is monotheism (q. v.), if he believe in one simple cause; or polytheism, if he believe? in several, or, at least, in a multiplied . emanation of causes from the great original cause), or he believes the great cause to be within the universe, that is, he con-. siders the universe itself to be God, which is pantheism. This belief is generally the offspring of materialism (q. v.) consistently carried out. Some persons, how-ever, have also applied the word panthsism to that doctrine of theology according to which God's spirit not only pervades every thing, but every thing lives through him and in him, and there is nothing without him (Acts of the Apostles, xvii, 27 et seq.; Ephes. iy, 6). The character of this doctrine depends upon what is understood by God, and in what relation we consider existing things to stand to him, which must essentially determine our moral and religious notions. The chief modern supporters of pantheism, as first ' defined, are generally considered to be Bruno and Spinoza; hence Spinozism is otten, yet wrongly, used for pautheism. Most of the systems of the Greek philosophers have this basis. The religious of heathen antiquity are profileistic in so far as they take for granted a fide, or a forming power of nature, which determines every thing.

PANTHEON (from the Greek mar. every, and ever deity) signified, in antiquity, a temple sacred to all the principal desties in common. The most famous is the pantheon at Rome, which Agrippa, the favorite of Augustus, built on the, campus Martins. Pope Boniface IV consecrated it, in 607, to the Virgin Mary and all the martyrs; hence it is still called " St. Maria ad martyres. It is still more commonly called the rotunda; on account of its form. It is one of the finest editices of Rome. Its stone roof is vaulted, and through a large hole in the centre of: the roof the interior is lighted. The wellpreserved portico seems to be of a later period than the temple itself; it consists of sixteen columns of Oriental granite, each of which is fifteen feet in circumfee, rence. The interior was formerly adorned with the most beaudful statues of the various deities, of which the best were carried, by Constanting, to Constantingple. At present, there are in the eight? niches, eight fine columns, placed there by the emperor Adrian. The height of all existing things, and 000, God). When the temple is equal to the width, i.e. 137

The diameter of the opening in the cupola is 27 feet. The floor is paved with porphyry. It has suffered much from the conperors, the harbarians and the popes. A smaller pantheon, at Rome, is, according to Montfaucon, considered to be the pantheon of the Minerva Medica. Ruins of a magnificent pantheon, which Adrian caused to be built at Athens, are still extant. It was supported by 120 columns. The pantheon in Paris was begun in 1764; it is in the form of a cross, 339 feet long and 253 feet broad, uniting, in its style, the Greck and Gothic. It was consecrated to St. Genevieve, but, in the beginning of the revolution, was called pantheon, and appropriated to the reception of the ashes of great men. It then received the inscription Aur Grands Hommes La Patric Recommussante. The Bourbons removed this inscription, and placed the following: D. O. M. Sub Invoc. S. Genovefa. Lad. XV. Dicavit, Lud. XVIII. Restituit. After the revolution of July, 1830, the people, in an immense mass, restored the noble and simple French inscription. The yaults under the church are skilfully arranged for the reception of the remains; they are neither damp, dark, nor gloomy. The tombs of Voltaire and Rousseau had been taken from their original situation, and placed in an obscure vault. The relics of Benjamin Constant were lately deposited there. The busts of Foy and Manuel bave been lately placed in the pantheon.

Panther (felis pardus). There is much discrepancy of opinion among naturalists as to the distinctive characters of the panther and leopard, most zoologists having assumed that the former had six or seven , rows of black spots in the form of roses, that is, formed by the assemblage of five or six simple spots, on each flank, whilst the latter had ten rows of still smaller spots. Mr. Bowdich, however, states that some skins procured in Africa proved that this distinction was erroneous. Mr. Temminck considers the leopard of Cuvier as a variety of the panther of the same author, and classes them both as leopards: and Buffon confounds the juguar with the panther. The punther of Tenminck is the F. chalybeuta, found in Eastern Asia, It is observed by Cuvier, that this cannot be the panther of the ancients, as they procured the vast numbers exhibited at Rome from Africa. Pliny states, that Scaurus exhibited at one time one hundied and fifty; Pompey the Great, four ·hundred and ten; Augustus, four hundred

Africa, from Barbary to the most remote parts of Guinea. It is to Africa, says Mr. . Pennant, what the tiger is to Asia, with this difference, that it prefers the flesh of brutes to that of human beings. It is almost untamoble, always retaining its fierce, malevolent aspect, and perpetual muttering growl. The temale is pregnant about nine weeks, and the young are born blind, continuing so for about nine days. The animal known under the name of panther, or more generally painter, in the . U. States, is the cougar or puma. (See ... Puma.)

PANTOMIME; the art of expressing action) and emotion by gestures in the largest sense of the word. Every lively conversation is accompanied by gestures, though very different both in nature and amount in differcert nations. The calmutterance of a speech in the English parliament, accompanied only by a simple motion in emphatic passages, would not suit an Italian, who delights in seeing a monk passing up and. down the street whilst he preaches, with the crucitix in one hand, and a handkerchief in the other, to wipe off the moisture with which his excitement covers his cheeks; nor would even Tahna's gesticulation suit all countries; yet the art of expressive/gesture deserves to be ranked among the fine arts. The Greeks cultivated it much; but with them and the Romans, it took, like all their other fine arts, a plastic character, and the expression of individuality was as much as possible suppressed; hence, also their masks. The mimic art with the ancients was connected with declamation and music on the one hand, and with the dance on the other. Of the mimic dances Xenophon gives us a lively picture, in his Banquet and his Anabasis, vi. 1, § 3, 8. They were mostly representations of invihological subjects, or were of a warlike character. The Romans had actors very distinguished for impressive gesticulation, ... of whom Roseius is the most celebrated. His instructions were eagerly sought for by orators. In modern times, the art is sadly . neglected. We do not suppose, indeed, that the delivery of the ancient actors. could be advantageously imitated by our parliamentary debaters or pulpit orators,. yet we can hardly doubt that they would awaken vastly more interest by a more careful study of the art of gesticulation. Among many works on this subject, Gilb. Austin's Chironomia is distinguished. . In .. pantonime, the performer relies solely upon gestures. If an action is represented by a milnic dance, we have the bullet & and twenty. The panther is still found in (q.v.): the ballet therefore is always panto-

sarily require the dance. The Greeks had arrived at the separation of gesture from declamation, on which the pantomine is founded; thus we find that one person represented a character by gestures and artificial motions, guided by music (which, together, the Greeks called onynous, the Romans, sultatio), whilst another performed the declamation. Moreover, single situations, particularly comic scenes, were sometimes pantominically performed among them (e.g. at banquets), but the true pantomine they had not. The word pantomime was invented in Italy; it meant. originally, an artist who imitates only by gestures. At a later period, entire theatrical representations, consisting of gestures only, were called saltativ pantomimorum. This species of performance was particularly developed under the first Roman emperors. Bathyllus (q. v.) and Pylades (the two great rivals in this art), Hylas and others, were celebrated in the times of Augustus, and not unfrequently gave occasion to riots, as the people took the greatest interest in these performances. But the pantomimes became so wanton, that many ancient authors consider this exhibition, in which the Romans took a passionate interest, among the causes of the decline of Roman greatness. ancient pantomines probably ceased with the decay of the Roman theatre. In the Italian mask a vestige of it remained. The pantomime, in the strictest sense, that is, unaccompanied with dancing, is an invention of modern times. More frequently, however, it has been united with the dance, and chiefly cultivated by the Italians and French. Noverre (q. v.), who must be considered as the father of the modern French dance, made a pantomime of Voltaire's Semiramis. With some Oriental nations, particularly with the Persians and Chinese, pantonimes accompanied by music form one of the chief amusements.

PANZER, George Wolfgang, a distinguished German bibliographer, born in 1729, at Sulzbach, was for some time a country clergyman, at Etzelwang, and afterwards at Nuremberg. works are a History of the German Translation of the Bible by Luther (1783); Annals of the Early German Literature (Nuremberg, 1783); an addition to it (Leipsic, 1802, Nuremberg, 1805, 4to.); and his Annales Typographici (Nuremberg, 1793 to 1803, 11 vols., 4to.), in which he enumerates all works known to have been printed from the invention of

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mimic, but the pantomime does not neces- works in all languages are chronologically arranged, the place of printing given, also a short account of them, and the libraries and publications in which they are contained. Panzer died July 9, 1805, leav-

ing a very valuable library.

Pao; Chinese for fortress, the same as Tchai, Ouci, &cc., all of which appear in

geographical names.

Paoia, Pascal, a Corsican officer, distinguished by his exertions to maintain the independence of his native country, was born in Corsica, in 1726, and was the second son of Hyacinthus Paoli, a man of considerable influence in the island. The circumstances of the country inducing him to remove, with his family, to Naples, Pascal was there educated at the Jesuits' college. He was still engaged in the prosecution of his studies, when his countrymen, who had long been struggling for freedom against the Genoese, by whom they were held in subjection, sent him an invitation to become their chief. He accepted the proposal, and, going to Corsica, was appointed to the supreme government of the island in July, 1755 Having organized a regular plan for the conduct of affairs, both civil and military. Paoli opposed the Genoese with such spirit and success, that, after they had carried on hostilities against him for nearly ten years, they entered into a treaty with France, in pursuance of which a body of French troops was sent to their assistance; and, finding themselves still unable to conquer the island, they at length made a surrender of their claims of sovereignty over it to the French government. The duke de Choiseul endenvored to prevail on Paoli to submit to the new arrangement, and accept of the office of commander-in-chief, under the authority of France. But he rejected all overtures of accommodation, and opposed with rigor the dangerous enemies he had now to encounter. At first he was successful, and a. .. much greater force than had been anticle. pated was found requisite for the subjugation of Corsica. Fresh bodies of troops were sent thither, and, overpowered by His chief numbers, Paoli found it necessary to consult his personal safety by flight from his native country. He made his way to the sen-coast, and, embarking on board an English vessel, went to England, where he obtained from the government a pension of £1200 a year. In 1789, the island was recognised by a decree of the national assembly, as a department of Frances; have been printed from the invention of and Paoli, being invited to resume his statistic art of printing to the year 1536. The tion at the bend of affairs, resigned his

pension, and took his departure from England. April 23, 1790, attended by deputies from Corsica, he presented himself at the bar of the national assembly at Paris, where he was received with enthusiasm, and took the oath of fidelity to the French government. The progress of the revolution disappointed the hopes which he had conceived; but he contimed the comexion with France till after the execution of Louis XVI, when he abandoned his allegiance, and was invested with his original dignities of president of the consulta, or national council, and commander-in-chief of the island, He was encouraged to adopt these measures by the promise of assistance from Great Britain; and, in February, 1794, an English army landed in Corsica. On the 14th of June following, a meeting took place of deputies from the different parts of the island, when, through the influence of Paoli, a decree was made, declaring the separation of Corsica from France, and its union to the Bruish empire. Paoli nbsequently returned to England, in consequence of some difference with the viceroy, sir G. Eliot. Having had the suisfortune to lose the bulk of his properry through a commercial failure at Egyborn, he was reduced to difficulties on his return to London; but, his pension being restored, he was relieved from his embarassment, and passed the remainder of his days in tranquillity. He died in London, February 5, 1807. (See Boswell's Account of Corsica.

PAOLO, FRA. (See Paul of Venice.) Pagla Giovio. (See Josius.) Papata. (See Popr.) Papas. The ancient Greek πόππα (pa-

pa. father), at present the name given p every clergyman in the Greek Cathothe church, is the original of papa, pape, papet, pope, &c. Zealous as cardinal Baronius is for the glory of the Roman see, he allows that in the East, as well as in the West, the title qupus (or pope) belonged to all bishops in the first centuries; and the tide was even bestowed on venerable clerks. In the times of Cyprian. . St. Arabrosius, Jerome, Augustine, every hishop had the title of pope, as their writings show. At the seventh occurrenced countril, in 869, at Constantinople, only the four pariarchs of the Greek church were called popes, and the bishop of · Rome determined to appropriate the title to himself; but it required the fron hand of Gregory VII to carry the plan into cftect. He assembled some Italian bishops at Rome, in 1073, who formed an assem-The state of the s

bly called a conneil, which excommuni-cated the emperor Honry, and declared that no one had the right to the title of pope except the bishop of Rome.

Papaw. The plant so named, with us,

is a shrub, or rarely a small tree, ithabit-ing all parts of the U. States south of the fortieth parallel of latitude, and even some degrees farther north, on the western side of the Alleghanies. It is rare, however, in the lower parts of the Southern States, and is most abundant in the basin of the Ohio, where it sonfetimes forms thickets occupying exclusively sev- ". eral geres. Its presence is indicative of extreme fertility in the soil; and, in a favorable situation, it sometimes attains the . height of thirty feet, with a diameter, at base, of six or eight inches. The papaw has received from botanists the name of asimina triloba, and belongs to the anonaceae, a family of plants almost exclusively tropical. The leaves are five or six inches long, clongated, and wedge-shaped; the flowers are large, pendent, and dark purplish brown; the fruit is about three inches long, thick, fleshy, and contains several large triangular stones; when ripe, it is of a yellowish color, and the pulp is son and edible, but it is insipid to the taste, and is not much esteemed. The wood is extremely soft, spongy, and is applied to no use in the arts. The cellular integument of the bark, especially of the roots, exhales a nauscous odor. Three other species of asimino inhabit the more southern parts of the U. States, and a fourth is found in Mexico. These together with the common papaw, constitute a genus exclusively North American. The true papaw (carica papaya) is a widely different plant, and a native of the East Indies. It has very much of the habit of a palm, and attains the height of about twenty feet, having a thick, simple stem, herbaceous in its consistence. and naked till within about two feet of the top, and marked with the cicatrices of the fallen leaves, throughout the greater part of its length. The leaves have long \(\frac{1}{2}\) footstalks, are very large, and deeply divided into seven, nine, or eleven lobes, which are sinuate and incised. The male flowers are pure white, agreeably scented, \$\dial_{\text{s}}\$ and are disposed in loose clusters upon long peduncies; the female flowers are; very numerous, large and bell-shaped, composed of six yellow petals, and are,: supported on short simple peduncles. The fruit is oval, furrowed, about as large as a small melon, full of a sweetish pulp, and contains oblong, wrinkled and brown

or blackish seeds. It is caten both in a which gave to the whole much firm ness erude state and prepared in various manners, and has an aromatic, sweetish and able for the rapidity of its growth, rising to the height of six feet in about six months; it flowers and bears fruit throughout the year. Four other species of carira inhabit the intertropical parts of America, and, according to Bartram, one is found in East Florida, but it has not been seen there by later travellers.

PAPER, HISTORY OF: The most ancient kind of paper, the Egyptian, was made of the cyperus papyrus. (See Papyrus.) According to the information banded down to us, the skins or fibres were separated in thin layers from the blade of the grass, and spread upon a table moistened with water from the Nile. The same adhesive water was heated, and the layers were wet with it. Upon the first layer another was placed, pressed and dried in the sun, and smoothed with a tooth. The age of this all-important invention is uncertain. In later times, the Romans devoted great industry to the preparation of paper; they had their glutinatores (those who glued the paper), nulleatores (hammerers), &c. According to Pliny, the sheets of the Romans were generally thirteen inches wide. There are, however, distinguished antiquarians, and among them the famous chevalier Landolina (died 1810, in Sicily), who maintain that it was the pith of the plant which the ancients chiefly used for the purpose of making paper; and he supports his opinion by ingenious experiments made with a plant growing near Syracuse, and which corresponds to the description given by the ancients of the papyrus. The Egyptian paper was called зьэхля, papyrus, charla Egyptiaca or Niliaca. The greatest quantity of paper was made in Alexandria, which greatly increased its wealth by its commerce in this article. In the fifth century, this paper was rendered very dear by heavy taxes. In the eighth century, it began to be supplanted by cotton paper; yet it was used in Italy until the eleventh century. The natives of Mexico, before the Spanish conquest, prepared their paper from the leaves of the agave (q. v.), in a manner resembling the ancient mode of preparing papyrus. They removed all the . fleshy substance from the leaves, by putting the plant in water, laid the remaining fibrous textures one on the other, and besuncared them with a clayey substance,

and elasticity. Besides the papyrus, there are remnants of ancient paper made of tolerably agreeable flavor; but, when cul-, the inner burk of trees, which, however, tivated in our greenhouses, the fruit is does not seem to have been so general, or entirely worthless. This plant is remark- account of its brittleness. The papyrusseems to be better fitted for resisting the tooth of time than any other writing material. To give a single instance: Mr. Saillier, at Marseilles, who possesses a number of Egyptian pupyrus manuscripts, has two rolls, which Champollion the younger, when embarking for Egypt in 1829, discovered to contain the history of the wars and reign of Sesostris the Great; their date is that of the ninth year of his But Sesostris-Rhamses, or the Great, according to the calculations of German chronologists, lived in the time of Moses; being, it is supposed, the son of the Pharaoh who perished in the Red sca. Whatever may be thought of the date assigned to these manuscripts, it is certain that their age is very great. In the eleventh and twelfth centuries, much was written on membranes. The Arabians became acquainted, in 704, A. D., with the cotton paper in Bucharia, prepared it themselves of raw cotton, and transplanted the art to Spain in the clev-In that country, where enth century. water-mills were in use, the first papermills also were set up, and at a later period carried over (about the year 1300) to Italy, France and Germany. In these mills the manufacture of paper from cotton rags was commenced. This cotton peper was known under the name of charta serica, cottonea, gosmpina, xylina, damascena, also Parcamena Græca. It differs from the linen paper by its less compact texture, and by more easilybreaking and blotting. Most of the American printing paper is made of cotton, on account of the great use of cotton fabrics compared with lines in this country; and for this reason it is mostly soft and liable to be torn. But, to judge from the appearance of some remnants of Spanish paper of the twelfth century, attempts were made as early as that time to add linen. rags to the cotton ones, which probably led, at a later period, to the invention of linen paper. Proper linen paper hardly makes its appearance before 1318; but trom that year the archives of the hospital in Kaufbeurn, in Germany, contain documents upon linen paper; and in the : city archives of the same place are documents of 1324, 1326, 1331, upon the same kind of paper: hence it is probable that the first linen poper was made in Germa-THE RESERVE OF THE PARTY OF THE

Spain and Italy have no linest paper before the year 1367, in their archives or libraries. This paper was not derived from China, as the Chinese to this day manufacture their paper of raw hemp and the rind of bamboos and mulberry-trees. Linen paper is esteemed the best, on account of its firmness and durability. English at present make the finest paper; they have brought it to great perfection in .. pect of whiteness, firmness and fineness, though the old paper, with a yellow tinge, was probably better for the eyes than the dazzling white paper used at present. The French also manufacture very fine paper. The Italians and Germans make the cheapest paper, as durable as that of the nations already mentioned, but not so fine. The manufacture of paper has of late rapidly increased in the U. States. Accordlag to an estimate in 1890, the whole quantity made in this country amounted to about five to seven millions a year, and employed from ten to eleven thousand Rags are not imported from halv and Germany to the same amount as formerly, because people here save them more carefully; and the value of the rags, rank. &c., saved annually in the U. States, is believed to amount to two millions of dollars. Machines for making paper of any length are much employed in the U. States. The quality of American paper has also improved; but, as paper becomes much perfor by keeping, it is difficult to have it of the best quality in this country, the interest of capital being too high. The paper used here for printing compares very disadvantageously with that of Fingland. Much wrapping paper is now made of straw, and paper for tracing through is propaged in Germany from the poplar rec. A letter of Mr. Brand, formerly a vivil officer in Upper Provence, in France (which contains many pine forests), dated Feb. 12, 1830, has been published in the French papers, containing an account of his successful experiments to make course The experiments paper of the pinc tree. of others have led to the same results. Any of our readers, interested in this subject, can find Mr. Brund's letter in the Courrier Français of Nov. 27, 1830, a French paper published in New York. In salt-works near Hull, Massachusetts, in which the sea-water is made to flow slowly over sheds of pine, in order to evaporate, the writer found large quantities of a white substance—the fibres of the pine wood dissolved and carried off by the brine which secreed to require nothing, ingenious methods is that invented by the but glue to convert it into paper. 18 4 3

Paper-Making. The combination of Sexible fibres by which paper is produced, depends on the minute subdivision of the fibres, and their subsequent cohesion. Linen and cotton rags are the common material of which paper is made; but hemp and some other fibrous substances are used for the coarser kinds. These materials, after being washed, are subjected to the action of a revolving cylinder, the surface of which is furnished with a number of sharp teeth or cutters, which are so, placed as to act against other cutters fixed underneath the cylinder. The rags are kept immersed in water, and continually exposed to the action of the cutters for a number of hours, till they are minutely divided, and reduced to a thin pulp, During this process, a quantity of chloride. of lime is mixed with the rags, the effect of which is to bleach them, by discharging the coloring matter, with which any part of them may be dyed, or otherwise impregnated. Before the discovery of this mode of bleaching, it was necessary to assort the rags, and select only those which were white, to constitute white paper. If, however, the bleaching process be carried too far, it injures the texture of the paper by corroding and weakening the fibrest. The pulp, composed of the fibrous particles mixed with water, is transferred to a large vat, and is ready to be made into paper. The workman is provided with a mould, which is a square frame with a fine wire bottom, resembling a sieve, of the size of the intended sheet. With this mould be dips up a portion of the thin pulp, and holds it in a horizontal direction. The water runs out through the interstices of the wires, and leaves a coating of fibrous particles, in the form of a sheet, upon the bottom of the mould The sheets thus formed are subjected to pressure, first between felts or woollen cloths, and afterwards alone. They are then sized, by dipping them in a thin solution of gelatin, or glue, obtained from the shreds and parings of animal skins. use of the size is to increase the strength of the paper, and, by filling its interstices, to prevent the ink from spreading among, the fibres by capillary attraction. blotting paper, the usual sizing is omitted. The paper, after being dried, is pressed, examined, selected, and made into quires and reams. Hot-pressed paper is rendered glossy by pressing it between hot plates of polished metal. Paper is also manofactured by machinery, and one of the most n Messrs. Fourdrinier. In this arrange-

1 ment, instead of moulds, the pulp is received in a continual stream, upon the. surface of an cudless web, or brass wire, which extends round two revolving cylinders and is kept in continual motion forwards, at the same time that it has a divided into a great number of sob-genera, tremulous or vibrating motion. The pulp is thus made to form a long, continued sheet, which is wiped off from the wire web by a revolving cylinder covered with flamel, and, after being compressed between other cylinders, is finally wound into a coil, upon a recl prepared for the purpose. Another machine for making paper consists of a horizontal revolving cylinder of wire web, which is immersed in the vat to the depth of more than half its diameter. The water penetrates into this cylinder, being strained through the wire web, at the same time depositing a coat of fibrous particles on the outside of the cylinder, which constitute paper. The strained water flows off through the hollow axis of the cylinder, and the paper is wound from the part of the cylinder above water, in a continued sheet.

PAPER MONEY. (See Circulating Medium.) PAPER MULBERRY. (See Mulberry.)

Papiros. There were two cities of this name in the island of Cyprus-old Paphos, ten stadia distant from the western coast, upon a height; and new Paphos, situ-The first was ated on the sea-shore. famous in antiquity for the worship of . Venus, thence called Paphia, or Cypria. - It was said that Venus here first landed, when she arose out of the sea. Here was an old image of the goddess, not made to represent the human form, but a white, twisted stone, terminating in a point; also the oldest temple in the island, which contained large treasures, and in which bloodless offerings were presented to Venus (Astarte, Aphrodite), such as incense and garlands of flowers. This image, together with an old tradition, seems to prove that the early worship of the goddess, in this place, was accommodated to the Phomician and Syrian religious rites. New Paphos was famous as a place of commerce, and for its harbor; it suffered greatly by cartiquakes, and was nearly destroyed by them during the reign of Augustus. Paul here preached the gospel to the proconsul Sergius.

PAPIER MACHE is a substance made of cuttings of white or brown paper, boiled in water, and beaten in a mortar till they are reduced into a kind of paste, and then boiled with a solution of gum Arabic, or boiled with a solution of gum Arabic, or checked by a host of enemies. A single of size, to give tenacity to the puste, which pair of sparrows, it is calculated, will de-

&c., by pressing it into oiled moulds. When dry, it is covered with a mixture of size and lamp-black, and varnished.

Parilio, or Butterfly; a large gonus of insects belonging to the lepidoptera, now the genus papilio of Linnaus forming the family of diurna of Latreille, whilst the genus is restricted to such of this family as have naked chrysolids, of an angular form, and attached by the tail: the perfect insect has six legs; the internal border of the inferior wings is concave or scalloped; in fact, it only includes the first division of the Linnean genus, viz. the equites. One of the most remarkable and interesting circumstances connected with this beautiful class is their series of transformations before reaching a perfect state. The female butterfly lays a great quantity of eggs, which produce caterpillars, destructive to the folinge of almost all vegetables. After a short life, these assume a new form, and become chrysalids the tomb of the caterpillar and the cradle of the butterfly. These chrysalids are attached in various ways, and are of various forms; some of a corneous appearance, with brilliant golden or argentine spots; others resembling a silken pod; within this covering the proscribed and often disgusting caterpillar becomes the agile and brilliant butterfly a change which poets have made typical of immortality. The mode in which the perfect insect is packed in his narrow cell, is very curious. It is fully described in the works of Swammerdam. When the period of its confinement has elapsed, the fly escapes from its prison-house by disgorging a frothy liquor, which dissolves the glutinous matter that gives solidity to the chrysalis, and this at last yields to the efforts of the enclosed insect, when it emerges perfectly formed for flight, but unable to use its wings until the air has. given them consistence. If, however, the heat of the weather is too great, instead of expanding into a firm and flat membrane, they present a folded or corrugated appearance, and are wholly useless. These insects, in their perfect form, take little food: for a short, they void a fluid of a red dish color, they aps the remains of food, ingested before their last change. This discharge is probably the cause of the showers of blood spoken of by early writers, which occasioned so much alarm. A single female butterfly produces several. hundred eggs, but their over increase is is afterwards formed into different toys, stroy upwards of 3000 caterpillars in a

week: great numbers are also killed by a lowed. Everardus Otto has designated species of fly, which deposits its eggs in every thing of his in the pandects, and the caterpillar, where they hatch, and the produced larvæ feed on the internal parts (See Cramer, of their unhappy nurse. Kcaumur, Madame Merian, &c.)

PAPIN, Denys, an eminent natural bhilosopher, was a native of Blois, in France. After finishing his studies, he made a visit to England, and, in 1680, was admitted a fellow of the royal society. Being a Protestant, the revocation of the edict of Nantes prevented him from returning to his native country, and, on leaving England, he settled at Marburg, in Germany, as a teacher of mathematics. Papin chiefly distinguished himself by his researches concerning the power of steam, and the influence of mechanical pressure in retarding the chullition of liquids. He suggested the principle which led to the invention of the steam-engine (see Newcommen); but he is best known for an invention of his own, denominated Papin's digester (see Digester), to soften bones, & c.

Papinianus, Æmilius; the greatest Roman lawyer of his time, born under Antoninus Pius, in the year 140, and a native either of Beneventum, in Italy, or of Syria. He applied himself to the study of Grecian and Roman literature, philosophy and jurisprudence, and, by his solid learning and inflexible integrity, obtained great credit and influence, was honored. with the first offices of state, and, at last, was chosen prefect of the pretorian guards. The emperor Severus, on his death bed, recommended to his care his two sons, Caracalla and Geta. Papinian tried oll means of preserving concord between them, but his remonstrances were so disagrecable to Ceraculla, that he at-last removed him from his place, though he still continued to treat him, ontwardly, as a friend and confidant. When Caraculla had caused his brother, to be assassinated, he asked Papinian to justify the deed, but received for answer, that it was easier to commit fratricide than to justify it, and that it would be a second murder to sully the memory of an innocent man. Caracalla concealed his anger; but, when the pretorian guards, probably at the instiga-, tion of the tyrant, demanded the head of Papinian, he gave him up to their fury, and caused him to be executed, in the year 212. Papinian wrote several works, high, that Valentinian III ordered that, whenever the opinions of the judges were it in some of the western rivers of Affica, divided, Papinian's opinion should be followhich circumstance renders it probable

has written his life (Bremen, 1743).

PAPPENHEIM, Godfrey Henry, count of, imperial general in the thirty years' war, was born 1594, descended from an ancient and noble German family. He distinguished binoself in the battle of Prague as colonel, in which he was severely wounded. 1. and left on the field, where he was found by his own soldiers, who were stripping the slain. In 1026, he conquered, with the assistance of the Bayarians, 40,000 peasants in Upper Austria, who had taken arms to defend their faith; then traversed Northern Germany, and joined, in 1630, general Tilly, whom he even outdid in cruelty, on the taking of Magdeburg. His fiery courage distinguished him every where; but he was not qualified for a commander-in-chief. Tilly ascribed the loss of the battle of Leipsic to his impetuosity. He appeared on the field of Lützen (q. v.). on the side of Wallenstein, was mortally wounded, and exclaimed, when he heard that Gustavus had also fallen, "Let the duke of Friedland (Wallenstein) know that I am mortally wounded; but I depart with jox, as I know that the implacable enemy of my faith has fallen with me on the same day.

Paperographs (so called by Mr. Sennefelder); the art of taking impressions from a kind of pasteboard, covered with a calcarcous substance (called lithographic paper), in the same manner as stones are used in the process of lithography. It is an art but lately invented. (See Sennefelder's Papyrographische Sammlung.

Papyrus (cyperus papyrus of Lambrus). This sedge-like plant has acquired celebrity from its furnishing the paper of the ancient Egyptians. The root is very . large, hard and creeping: the stem is very stout, naked, except at the base, eight or ten feet high; triangular above, and terminated by a compound, wide-spreading and beautiful umbel, which is surrounded with an involucre composed of eight large sword-shaped leaves. The inconspicuous flowers are disposed in little scaly spikelets, which are placed at the extremity of the rays of this umbel. It is an aquatic plant, and the lower part of the stem is always immersed in water. The papyrus. grows in the swamps along the borders of the Nile, and not in the stream itself, as has been supposed. Bruce observed it in and educated several distinguished schol-, the Jordan, and in two places in Upper. ars. His reputation as a lawyer was so and Lower Egypt. It now grows wild in Sicily, and late travellers have discovered

that it is found throughout the greater means confined to the making of paper. The inhabitants of the countries where it grows, even to this day, manufacture it into sail-cloth, cordage, and sometimes wearing apparel. Boats are made by weaving the stems compactly together, and covering them externally with a resinous substance, to prevent the admission of water. Although these resemble baskets in their appearance, they are of great utility, and, indeed, are the only kind known in Abyssinia. The roots are also The most ordinary employed for fuel. use, however, was for the manufacture of paper, by a process which has been known from the remotest autiquity, even before the historical times of Greece. (For this, see Paper.) In order to raise the plant in our green-houses, it is necessary to place it in a cistern of water, having rich mud at the bottom.

Pan (Latin, equal) is used to denote a state of equality or equal value. Bills of exchange, stocks, &c., are at par when they sell for their nominal value; above par or below par when they sell for more or less.

Para; a Greek preposition of very various meaning, according to the case which it governs. In compound words, it means above, axide, against, about, thereto, &c., and it appears in a very large

number of our compound words.

Para: a Turkish cop, very thin and small, of copper and silver, the fortieth part of a Turkish pinster, which is constantly varying in value, sometimes four-teen of them being equal to a Spanish dollar, sometimes fifteen, &c. It is as light in weight as it is of little value, and the writer well recollects its liability to be blown away in making payments in the open air in a windy day. The Greek phanix (q. v.) is the sixth part of a Spanish dollar.

PARABASIS; a transition, fault, extravagance; particularly a part of the uncient comedy, in which the poet himself addresses the spectators, through the leader of the chorus.

PARABLE (from the Greek #apa/soly); squetimes a mere simile, but usually a series of them, or a tale made up of similes. The parable differs from the allegory by the circumstance of being less symbolical. The original idea is not kept so completely out of sight. From the fable

common with the Eastern nations; c. g. portion of the interior of that continent, the parable which. Nathan addressed to The uses of the papyrus were by no David, Christ's nurable of the production see of the laborers in the vincyard, of the faithless steward. Herder and Krummacher have distinguished themselves among the German writers by their parables.

PARABOLA; a curve, formed by that section of a cone (q. v.) in which the axis of the section is parallel with the opposite side of the cone. The point where the side of the cone is intersected by the plane, is called the aper. All the parallel lines which are drawn within the curve perpendicularly through the axis (which runs from the apex through the surface of the curve), are called ordinates; the halves into which the axis is divided, semiordinates; the portion of the axis from the apex to its point of intersection with a given ordinate, the abscissa of that ordinate; the two sides of the curve, from the apex to the base of the cone, the legs of the parabola. The length of the legs varies with the distance of the section from the vertex of the cone. The distance of its apex from the vertex of a given cone determines its curvature. The square of the semiordinate in the parabela is equal to the rectangle of the absciss: of the semiordinate and of the parameter. a line which is to the distance of the apex from the vertex of the cone as the square of the diameter of the base is to the square of the side of the cone. The magnitude of the parameter is always the same for any given distance of the apex from the vertex, and consequently for any given parabola; but the semiordidates and their. abscissas are longer in proportion as the latter are further from the apex. If the side of the cone and the diameter of its. base, and consequently also their squares. , are equal to each other, the parameter is equal to the distance of the apex from the vertex of the cone; or, in other words, this distance itself is the parameter. point in the axis where the abscissa is equal. to the parameter, is called the focus. It bears this name, because the theory of the parabolic concave mirror is founded upon its principal property. The theory of the parabola is not less important in the science of gunnery. Every projectile, which does not fall perpendicularly, moves in a direction resulting from the force of projection and the gravitation of the projectile, and the parabola enables us to calcu & proper it differs by being taken from the late mathematically the puth of a projectile province of reality. Fime parables are in free space, from the proportionate mag-contained in the Old and New Testament; intude of the two forces. Setting aside: this mode of instruction, in fact, is very the resistance of the air, it is demonstra-

ble that the path of the projectile must be a parabola whose apex is its greatest height, i. c. greatest distance from the earth's centre of gravity. If the projection is horizontal, the apex is then at the floint where the free path begins, and the body describes one leg of a parabola. If the direction is between the horizontal and perpendicular, the body describes one leg of a parabola in its ascent, and the other in its full; and in both cases, therefore, the path of the body is easily determined. And, on the contrary, if the distance and position of an object are given, it is easy to determine, from the force of projection, and the weight of the projectile, the angle of direction which should be given to the latter. The resistance of the air will affect the direction of the projectile; but in small heavy bodies, the effect is triffing, and In the larger, such as bombs, it is easily determined on mathematical principles. (See Projectiles, and Mechanics.)

PARABOLIC MIRKORS. (See Burning

Min rors.) 🐪

Paragonom, in geometry, is a body generated by the rotation of a parabola around its axis.

Paraceusus, or Philippes Aureolus Theorneastes Bombastes de Hoden-HEIM; a celebrated empiric and alchemist. born et Einsiedeln, near Zurich, in Switzerland, in 1493. His father, a physician, is said to have been the natural son of a Tentonic knight. After some education at home, he visited France, Spain, Italy and Germany, with a view to improvement in medicine, and the arts and sciences connected with it, especially chemistry. In the course of his travels, he became acquainted with some remedies not in common use among the faculty (probably preparations of mercury), by means of which he performed extraordinary cures, and obtained great reputation. Returning to Switzerland, he taught medicine and surgery at Basle, delivering his lectures partly in the German language, for want of a sufficient knowledge of the Latm. At length, having cured John Lichtenfels, a rich ecclesiastic, of a dangerous discase, and being precluded, by a decision of the magistracy, from obtaining the stipulated reward, for which he was obliged - to sue his patient, he was so enraged at the disappointment, that he grossly abused the judges, and, becoming apprehensive of their resentment, took his departure from the city. He then led a wandering life in Alsatia, accompanied by his pupil Oporimus, who, disgusted with his violence and intemperance, at length left him to pursue Non in

his wild career alone. Paracelsus professed an utter contempt for the practice of his medical contemporaries, and boasted of an intercourse with spirits, and the possession of the philosopher's stone, and the click of life; but he disgraced his pretonsions by dying in the forty-eighth year of his age, after a few days' illness, at the hospital of St. Sebastian at Falzburg, in 1541. Among the writings altributed to Paracelsus are some on surgery, chemistry and theology, many of which remain unpublished. A collection of his works, in eleven volumes, quarto, was printed at Basle, in 1559; also one printed at Geneva, in 1658, with a preface, containing an account of the author.

Pyrachete; a silk instrument, of an umbrella shape, about twenty feet in diameter, attached to balloons, by means of which the aeronaut may descend slowly from a great height. Blanchard made the first successful experiment with one in London, in 1795. Garnerin has also invented a peculiar kind of parachate.

Paraclett. (**monkby-g** a counseller comforter); in the English translation, the Comforter; the Holy Ghost. Jesus promised to his disciples (John viv. 16), that his Father would send them another Comforter, the Spirit of truth, who should abide with them for ever, and (v. 26) teach them all things. (See Abdard.)

PARADISE (from the Greek word and these, a garden, a park, by which the garden of Eden is rendered in the Greek translation of the Old Testament from the Hebrew); the garden of Eden, in which the first parents of the human race were placed after their creation. Here they lived in a state of innocence, until they forfeited the favor of God, and were expelled from their happy sear, for an act of disobedience. Commentators are divided as to the situation of Eden.

Paradise, Bird of (Paradisea, Lin.); bill straight, compressed, strong and notchless; nostrils covered with feathers of a velvety or metallic lustre; phunage singular and splendid. They occur in Japan, China, Persia, and various parts of India, but are supposed to be originally natives of New Chines. They were formerly supposed to live on dew, to be without legs, and never to alight. The legs were, in fact, torn off in preparing the birds for . There are several species. -emament-The great bird of Paradise (P. major-Shaw; apoda, Lin.) is of a cinnamon hue crown luteous; throat golden green or vellow; side feathers very long and float . ing; length, from the end of the bill to the

end of the real tail, about twelve inches; but to the end of the long hypochondroid feathers, nearly two feet. This species is: found in the Molucca islands, and those round New Guinea, particularly. Papua and Aru, where they arrive with the westerly monsoon and return to New Guinea with the easterly. They move in flights of thirty or forty, with a leader above the rest, and preserve their light and voluminous phimage in order, by always flying against the wind. Sometimes, however, a sudden change of wind discomposes their feathers, so that they fall. Judging from their bill and claws, it is not improbable that they subsist both on animal and vegetable food,

Paraguay; a republic of South America, situated between the Parana on the E. and S., the Paraguay on the W., and Brazil, from which it is separated by the Xexuy and a mountainous ridge on the N.; lat. 24° to 27° 30′ S.; lon. 54° 40′ to 58° 30 W. It comprises a superficial area of about 50,000 square miles, with a population differently estimated at 150,000, 200,000, and 300,000. Paragnay was discovered by Sebastian Cabot (then in the service of Spain), in 1526. In 1776, it formed a province of the newly established viceroyalty of Buenos Ayres, previously to which it had formed a sort of theocratical commonwealth, under the government of the Jesuits. It was this circumstance that led to their banishment from Portugal in 1759, and from Spain in 1767. (See Jesuits.) At the time of the abolition of the order, their state embraced above forty missions (doctrina), comprising, besides Paraguay properly so called, Tucuman, Rio de la Plata, and the corregimento of Tarja; the seat of the ruling provincial and his four counsellors was at Cordova. No European was permitted to enter their .territory; forts were erected, an armed force maintained, and the commerce was entirely in their hands. In 1752, Spain, having ceded seven of the Jesuit missions to Portugal, the society, after vainly throwing every obstacle in the way of the cession, finally instigated the natives to armed resistance; but their forces were defeated by the united Spanish and Portagueso armies (1756), and the order was expelled from Paraguay. (See Southey's History of Brazil.). In 1810, the junta of Buenos Ayres sent a body of troops to .. depose the Spanish governor of the province, but they were forced to retreat. inhabitants, however, soon after deposed

in the name of Ferdinand VII. In 1813. they proclaimed Paraguay a republic, under two consuls-doctor Francia and Yegros: At the end of the year, the former caused himself to be named dictator for three years, and, at the expiration of that term, for life. In 1826, he first declared Paraguay independent, and, in 1827, its independence was formally acknowledged by dom Pedro, then emperor of Brazil. We have given an account of the arts by which doctor Francia rose. and of the spirit in which he administered the government, in the article Francia. His government has, of late, become somewhat milder than it was formerly: he has introduced industry, the arts, and order among his subjects, and seems to have aimed at their welfare even in the midst of his acts of tyramy. The celebrated Bonpland, who received orders to leave the country in 1829, was afterwards detained until February, 1831, having been confined mine years. The two travellers Reugger and Longchamps, who were detained in the country six years (1819-1825), have pulished an Essai sur le Gouvernement dictatorial du Doctor Francia (Paris, 1827; English, London, 1830). The inhabitants are Creoles, who compose about, seven tenths of the population; natives (Guaranas), one teath; the blacks and mixed breeds, with a few hundred Spaniards, the remainder. The standing army of the dictator consists of 5000 men the militia, of 20,000. The climate of Paraguay is mild and healthy, but moist; the face of the country is level, and the soil in general fertile. Tropical fruits, corn, and the vine, thrive very well; the sugar-cane, rice, maize (of which the matives make an intoxicating drink), excellent tobacco, indigo, various drugs, such as jalap, quinquina, rhubarb, &c.; and many valuable forest trees, abound. The matte, or Paraguay tea-plant, is a small plant, the leaves of which resemble senna; they are dried, and used all over South America, in the form of an infusion, as the tea of China is used with us. The principal articles of export are mutte, tobacco, sugar, cotton, wax, and tallow and hides, obtained from the immense herds which roam in the vast plains of Paraguay. ostrich, parrois, boas, rattle-suakes; cougars and jaguars are among the wild animals. PARALLAX; the angle formed by two

Buenos Ayres sent a body of troops to depose the Spanish governor of the province, but they were forced to retreat. The inhabitants, however, soon after deposed the governor themselves, and tormed a junta, which administered the government form, with the other straight line; a triangle

whose angle at the object is the parallax. The parallax is of particular importance in astronomy for the calculation of the distance of heavenly bodies. These may he observed from very different points on The globe, and appear accordingly, and according to their distance at different places in the heavens. The astronomer, however, considers himself at the centre of the globe, calculates the place of the heavonly body with reference to this imaginary place of observation, and calls the place thus found the true or mean, in contradistinction to the apparent place, observed from the surface of the globe. If the heatenly body were seen precisely in the horizon, and if we suppose, at the same time, another line of view drawn from the centre of the earth to the same body, these two lines of view would include, with the radius of the globe, a right-angled triangle, in which the angle at the heavenly body would be its horizontal parallax, and the hypothenuse the distance of the star from the centre of the earth. From this horizontal parallax, therefore, we may calculate the distance of the beavenly body according to trigonometrical laws. The horizontal parallax, it is true, cannot be observed directly, but the parallax of altitude can be so observed. This expression designates the angle at the star, when elevated above the horizon. From the parallax of altitude follows the horizontal parallax, and hence the distance.—See Bode's Introduction to Astronomy. 3d edit. (Berlin, 1808, vol. j, § 542 et seq.).—It ought to be added, that this parallax is called the daily, in contradistinction to the annual, by which, in general, is understood the difference of the place of a heavenly body as seen from the earth and from the sim; particularly, however, the angle formed by two lines from the ends of the di-, ameter of the earth's orbit to a fixed star. which angle, on account of the immense distance of the fixed stars, is too small to be ascertained. (See Fixed Stars.)

PARALLELISM OF THE EARTH'S Axis is used to denote that invariable position of the terrestrial axis by which it always points to the same point in the heavens, abstracting the trilling effect of nutation,

&c. (See Nutation.).

PARALLEL LINES, in mathematics; two lines which, continued ad infaition, never approach or remain always at the same distance. The theory of parallels is of the highest importance in mathematics, being an essential element of most demonstrations; yet, though everything asserted of them in mathematics is evident, the

strict demonstration of the theory has given mathematicians great trouble, and not a few have lost much time, and some even their reason, in the attempt. In this respect, the theory of parallel lines is some-what like that of the squaring of the circle.-Parallel is often used metaphorically, to denote the continued comparison of two objects, particularly in histo-Thus we speak of drawing a historiry. cal parallel between ages, countries or men. Plutarch wrote biographical parallels. Parallel passages signifies passages . which agree in import; as, for instance, the parallel passages in the Bible.—Paralblism, in Hebrew poetry, is the correspondence of two successive lines in imagery, sense or grammatical construction. -Parallel circles, or circles of tatitude, are those, circles which run parallel to the equator, and become therefore smaller and smaller towards the pole. (See Lalihule.) Parallel lines, in sieges, are those trenches which generally run parallel with the outlines of the fortress. They serve as places for concentrating the forces to be directed against the fortress, and are usually three feet deep, from nine to twelve feet wide, and of a length adopted to the circumstances of the case. Generally three parallel lines are requisite before a breach is made, the most distant of which is from 600 to 900 paces from the covered warof the formess; and the last receives the apparatus destined to effect the breach, and is made on the glacis itself. The communication from one to the other is effected by means of ditches. Vanban first made use of them in 1763, at the siege of Maëstricht.

Parallelogram or Forces is a term used to denote the composition of forces, or the finding a single force that shall be equivalent to two or more given forces

when acting in given directions.

PARALLELOPIPED, in geometry: a regular solid, comprehended under six sides or parallelograms, the opposite ones of which are similar, parallel, and equal to each other.

PARALLEL SALLING, in navigation, is the sailing under a parallel of latitude. (See

Newigation.

Paralogism in logic; a false reasoning, or a fault committed in demonstration, when a consequence is drawn from principles that are false, or, though true, are not proved; or when a proposition is passed over that should have been proved by the way.

PARALYSIS. ... (See Palsy.)
PARAMATTA. (See Observatory.).

PARANA RIVER. (See Plain, La.) PARANYMPH. (See Marriage.)

PARAPET, in fortification; an elevation of earth, designed for covering the soldiers from the enemy's cannon or small shot,

Parapu; a particular character or flourish, added to the signature of a person to render the counterfeiting of it more diffibult. With some nations they have gone out of use. With others (c. g. the Span-, iards) they are as customary and take as much room as in the middle agest; indeed, they often affix the paraph, without the

name, to official papers.

PARAPHERNALIA are the woman's apparel, jewels, and other things, which, in the life-time of her husband, she wore, as the ornaments of her person, to be allowed by the discretion of the court, according to the quality of her and her husband. The husband cannot devise such ornaments and jewels of his wife, though during his life he has power to dispose of them. But it she continues in the use of them till his death, she shall aftorwards retain them against his executors and administrators, legatees, and all other persons, except creditors, where there is a deficiency of as-

PARAPHRASE; the setting forth of the sense of a writing in a more clear and ample manner than it is given in the original. When the original is in a foreign language, the paraphrase differs from a mere translation, in the circumstance that the object of the paraphrase is always to explain or to develope more fully the meaning of the A paraphrase of the Lord's original. prayer, for instance, is a composition in which the ideas of the prayer are applied more particularly to the duties of life, or set forth more in detail.

Parasang; an ancient Persian measure, different at different times and in different places, being sometimes thirty, sometimes forty, and sometimes fifty sta-

dia, or furlongs.

Paraselene; a mock moon, seen usually in a ring round the moon. (See Optics.)

PARASITES, OF PARASITICAL PLANTS, in botany such plants as are produced out of the trunk or branches of other plants, from whence they receive their nourishment, and will not grow on the ground; as the mistletoe, &c.

PARASOL. It appears from ancient monuments and descriptions that this wellknown instrument, or something exceedingly resembling it, was used among the aucients, not for the purpose so much of in religious ceremonies and processions.

In the festivals of Ceres and Minerva, the young femules who celebrated them bore, among other sacred instruments, the parasol: it was, in fact, one of the most ancient marks of diguity that we find indicated either by relics of art or by authors." In process of time, when the Romans began to lay aside the simple habits of their forefathers, the parasol, by a natural transition, began to be used for the purpose to which it is still applied. The matrons, particularly, used to be followed by slaves, whose office was to protect the delicacy of their charms by intercepting the solar heat by the agreeable shade of the paix-They were constructed of wands, or twigs, disposed in such a manner as to admit of their being put up or down, in much the same way as those used at the present day. The substance employed was often of rich stuff, such as silk, &c., of showy colors, and elegantly embroidered. In many countries, where the sun is powerful, it is well known that parasols are used by men, as well as women."

PARCE. (See Futes.)

PARCHMENT, used for writing, is prepar ed from the skins of sheep and goats. These, after being steeped in pits impregtaited with lune, are stretched upon frames. and reduced by scraping and paring with sharp instruments. Pulverized chalk is rubbed on with a pumice-stone resembling a muller, which smooths and softens the skin, and improves its color. After it is reduced to something less than half its original thickness, it is smoothed and dried for use. Vellum is a similar substance to parchment, made from the skins of very young calves. Next to the papyrus, the skins of animals, in the form of parchinent and vellum, were extensively used for writing by the ancients from a remote period. When Eumones or Attalus, attempted to found to have a should rival the famous Arganian library, one of the Ptolemies, then king of Egypt, jealous of his success, made a decree prohibiting the exportation of papyrus. The inhabitants of Perganus set about manufacturing parchment as a substitute, and formed their library principally of manuscripts on this material, whence it was known among the Latins by the name of Pergamena, The term membrana was also applied by them to parchment. The Hebrews had books written on the skins of animals in David's time; and Herodotus relates that the Ionians, from the carliest period, * preservation from the rays of the sun as wrote upon goat and sheepskin, from which the lair had merely been scraped

much improved there, and first made in large quantities as an article of trade. terwards made white in Rome. At prescut any color can be given to it.

PARUO, EL; a pleasure-palace of the kings of Spain, three lengues N. W. of It was built in the reign of Madrid. Charles V, and is adorned with frescoes, pictures and statues. It contains apartineuts for all the royal family, a chapel, and a theatre, and has fine gardens at-tached to it. The forest of the Pardo is

15 leagues in circuit.

PARDON, In England, in all cases of erimes, except where there is an impeachment, a pardon from the crown may be granted before a trial, as well as after; and it stops further progress in the inquiry and prosecution at whatever time it is granted. In cases of impendiment, no pardon can now be granted by the king while the prosecution is pending; but after conviction of the offender, it may be granted, as in other cases. This is in virtue of the act of settlement of the crown, 12 and 13 William III, ch. 2. In America, the constitution provides that the president "shall have power to grant reprieves and pardons for offences against the U. States, except in cases of impeachment." The senate has the whole power of trying impeachments. It is presumed, therefore, that an act of congress only can give the benefit of a pardon in cases of impeachments, if such power exists in any department of the government. By the same constitution, "judgment, in cases of impeachinent, shall not extend further than to removal from other, and disqualification to hold and enjoy any office of honor, trust or profit under the U. States." The party remains, nevertheless, liable to indictment and punishment for the oftence, by the common law tribunals, as in other cases. Similar provisions exist generally in the state constitutions, or state laws, throughout the Union. In German jurisprudence, the word abolition is used to signify an act of mercy, on the part of the sovereign, releasing some one from a deserved punishment, without examination, or putting an end to a trial already, maintaining and educating a child natucommenced, before a judgment, determin- rally falls upon the parent; and this pre-ing the guilt or innocence of the accused, cept of the law of nature is recognised has been pronounced. This prerogative and enforced among all nations.

off. These facts show that parchinent Bavaria, abolition, after the trial has com-was not invented at Pergamus, but it was ineneed, is, in all cases, unconstitutional. In several countries, the prince has the right of stopping a process already commenced, for an uncertain time, and keeping it undecided, which is called Sistirung. The king of Prossia availed himself of this arbitrary power but a fow years ago, in the case of an action brought by a citizen against one of his officers for slander.

Pané. Ambroiso, the father of French surgery, born in the beginning of the sixteenth century, at Laval, studied at Paris. In 1536, he accompanied René de Mont Jean during his campaign in Italy, and, in 1552, became surgeon to Henry II, under whose successors (Francis II, Charles IX and Henry III) be held the same post, His enemies were numerous among the physicians, who accused him of baving poisoned Francis II; but Paré, having cured Charles JN of a daugerous wound, established himself so strongly in the favor of the court, that Charles allowed him. though a Protestant, to escape the massacre of St. Bartholomew, by taking refuge in his own apartments. He died at Paris, in 1590. We are indebted to him for improvements in the treatment of gun-shot wounds, and in the operation of trepanning. He also restored the practice of tying up divided arteries, operated on ar-ticular concretions, &c. His works appeared in French, in 1561; in Latin, in 1582.

Pauraonic Elixin (tinctura camphora "opiata, Pharm. U. States). Paregorie is a preparation of opium, and has different names in the pharmacoposias of different nations. It is quite a popular medicine, and is much used by nurses as a palliative in many of the lighter, but more or less painful maladics of intauts. As, however, there is some uncertainty about the effects of opium, in all cases, and as there is much in the constitution of infants to increase this uncertainty, in the use of this and almost all medicines, it is the safest course never to give paregoric, or any other preparation of opium, in their diseases, unless under the direction of a physi-

The duty of ·PARENT AND CHILD. cept of the law of nature is recognised. of the sovereign is limited, in several states, hows of the Afhenians enforced the duty by the constitution, particularly in cases: of the parent towards the child so far as to of public impeachment against officers of public impeachment against office

trate; and the laws of some modern countries restrain the right of the parent in disposing of his property by will, or during his life, so as to defeat the inheritance of his children. The laws of England, and those of the U. States (whose code is founded upon the common law of England), only require the parents to maintain the child during his minority, or until he arrives at the age of twenty-one years, or such other age as is fixed upon as that of majority, unless afterwards the child is unable to maintain himself, in which case the laws more generally, if not universally, in civilized states, impose upon the parents, or other relatives, the duty of maintaining him; and so, rice versu, in case of the parents being unable to maintain themselves, the law imposes the duty upon the children. This law. enjoining the duty of maintenance reciprocally between parents and children, and extending it, in certain cases, to other relatives, is founded partly on the motive of exonerating the public from this charge. Such is the ground of the provision in those countries and states in which the common law of England is the foundation of the system of jurisprudence. But in many countries, of which the legal system is engrafied on the civil law, the regulations are extended more minutely to the unitual rights and obligations of members of the same family. The father has the right of custody and control of his children, and is entitled to their service and obedience, unless he is insure, or, by some act or circumstance specified by the laws, forfeits, or is deprived of these rights; for the child, though to many purposes under the dominion of the father until the age of majority, is not absolutely so; , on the contrary, the law recognises the existence of the child, and extends protection to it, not only from the time of the birth, but even before; for a child may inherit an estate that descends during the time of the mother's gestation. In case of the gross abuse of the parental authority, or egregious disqualification of the parent for the office of guardian, the law extends its protection to the child by the appointment of another guardian. systems of laws do not agree as to what circumstances give proper occasion for the substitution of another guardian in the The insanity or place of the parent. idiocy of the parent, which divests him . of all moral or legal capacity or responsibility, will, of course, under all laws, exempt the child from all duty of obedience. The laws also usually make provision for

cases of abuse and extreme cruelty on the part of the parent. In case of the decease of the father, the law transfers his authority over his children to the mother. but usually with some qualifications and limitations, making a distinction, in this respect, between sons and daughters, giving the mother a more extended authority over the daughters, for the obvious reason that she is supposed to be more capable. of governing them, and superintending their education. The laws relating to the mutual rights and duties of parents and children, are obviously a very important part of every code, and have a very intimate connexion with the state of society, and with civil institutions. The welfare of the community is, for instance, directly and deeply affected by the education of youth, and one object of every code is to encourage such a course of education as may form good citizens. Solon provided, for this purpose, that a child, not educated by the parent to some art or trade, should not be obliged to support the parent in old age. In ancient times, when paternity was a great foundation of civil authority. the parental rights were much more absolute than in the modern, extending, in some countries, to the right of life and death, and continuing during the life of The Persians, Egyptions, the two parties. Greeks, Gauls and Romans allowed to fathers a very absolute dominion overtheir children. Among the Romans, it was not an absolute power of life and death, but a regulated domestic jurisdiction, gradually softened by the progress of refinement. Bynkershoeck thinks the power of life and death, on the part of the father, coased during the reign of Adrian. In the time of Constantine, the putting to death an adult child, by the parent, was made a capital crime. No. such power is permitted among modern civilized nations, as we have already seen; but provisions are made, by law, to prevent and punish cruelty on the part of the parent. But the law every where allows the parent to inflict moderate chastisement on the child-a liberty which must he given, in order to secure authority on one side, and obedience on the other.
The more general time of majority of the child is the age of twenty-one years, when he is liberated from the authority of the father. This is the age of majority in England and the U. States; and it is so now, also, in France, though it formerly commenced there at the age of twentyfive. PARERE; in some countries, the written

decision of impartial merchants on litigated points, concerning which parties

wish to know their opinions.

Parga; u senport on the coust of Albania, opposite the southern point of Cortu.
At the time of the fall of the Roman empire, this city was built on a rock washed on three sides by the sea, and forming in the rene a steep cliff, the summit of which was crowned by an almost impregnable citadel. The city lies at the mouth of a river (the Aclieron of the ancients). It is surrounded with walls, and contains two barbors, formed by a small island, and pro-terted by a battery. The prospect from the enadel is magnificent. The neighboring country is 'fertile, and the district belonging to the city is separated from the limits of Albania by a chain of elevated mountains. Parga is hardly mentioned in history till 1401, when it entered into an alliance with Venice, which continued till the fall of Venice, in 1797. Being independent of Ali Pacha, the tyrant of Albama, it was the asylum of all who sought to escape his fury, and became the seat of frequent intrigues against his government. Ali Pacha therefore desired to get possession of it. In 1798, he found means to reduce Prevesa and the other fortresses on the neighboring coast; but Parga set his arms at defiance. The Pargiots repelled his attacks till 1814, when they applied to the English in Corfu, and received a parrison from them, with the expectation of being incorporated with the republie of the Ionian islands; but the British government refused to receive the submission of the Pargiots. They did not overlook the importance of Parga to Corfu; but the dread of constant hostilities with the Albanians led them to enter on negotiations with Ali; and he was put in possession of Parga on condition of his paying a pecuniary indemnity to those inhabitants who should choose to change their The population consisted of residence. about 5000 Albanian Greeks. The surrender to Ali took place in 1819, and almost all the inhabitants emigrated to the Ionian islands, after having burned even the bones of their uncestors.

PARIJELIA. (See Optics, division Nat-

. reral Phenomena.), .

PARIAN CHRONICLE. (See Arundelian

Marbles.)

: PARIAS; Ifindoos of the impure castes of the Sutas, Vaidelius and Chandalas, so · numerous,a class that Menu (q. v.), in his touth chapter, has not even taken the trouble to enumerate them. The fourth Marseilles; 304 N. E. of Bordeaux; 225 costo, or Sudras, is widely separated from S. E. of Loudon. The environs do not

the three privileged ones (see Caste); but. still further removed and more degraded are the mixed and impure classes. the number of which, according to some, amounts to eighty-four. The three castes above named are the only ones called Parios in the code of Menn (x, 26); they are prohibited from all approach to any thing pure, as if they were infected with leprosy. (See Hindoos.) Heeren thinks that the difference of color between these Parias and the higher classes shows them to have been the original inhabitants of a the country, the Helots of the Indians, and deprived of all rights for defending their .

independence. (See Delavigue.)

Parini, Giuseppe, one of the most celchrated Italian poets of recent times, born at Busisio, a village of the Milanese, in 1729, studied polite literature and science . at Milan, and devoted himself, in compleance with the wishes of his father, but , contrary to his own inclination, to theology. In spite of narrow circumstances and a feeble constitution, he labored assiduously in his studies, and early made some essays in poetry. To relieve his wants, he published a collection of these youthful productions, under the name of Ripano Eupilino, in 1752. It was successful, and he was admitted a member of the acade ! my of the Arcadians at Rome. Having been appointed preceptor in the Borromeo and Serbelloni families, he was now enabled to apply himself more exclusively to his favorite studies. His familiarity with the manners of the great led him to at tempt a delineation of them in a species of didactic and dramatic satire, entitled It Giorno (the Day) The Mattino (Morning) np-peared in 1763, and the Mezzogiorno (Noon) two years later. This poem extended his reputation, and he was made professor of rhetoric in the gymnasium of the Brera. His lectures on the belles-lettres have been printed. The completion of the Giorno was often interrupted by the troubled state of Italy, but was finally effected under the title of H Vespero (Evening) and La Notte (Night). He died in 1799. His works have been published in six volumes (1801-1804).

PARIS; the capital of France, the second city in Europe for population, and the fourth for extent, in the northern part. of the kingdom, on both banks and two islands of the Scine; lat. 48° 50′ 14″ N.; lon. 2° 20′ 15″ E. of Greenwich, 20° E. of Ferro. It is 112 miles S. E. of Huvre, at the mouth of the Seine: 472 N. W. of

Section Section

Thanes, Paris on several sides presents • The stream of life in the great streets, the crowd of wagons, carriages and horsemen, is not so great as in the neighborhood of London. The finest approach to Paris is by St. Germain; a broad, straight street, lined with lofty buildings, leads from Neuilly to the city, where the view is terminated by the unfinished Arc de l'Étoile, which stands on an elevation; from this to the charming Champs Elysées, extends a walk about a mile and a half in length, planted with fine class, and lined on both sides with handsome houses and beautiful gardens. You next arrive at the Place Louis XV, pass the Toileries, with its gardens and statues, the Seine, with its bridges and quays, the Place Vendôme, with its triumphal column, the Palais Bourbon, where the chamber of deputies assembles,—you are in Paris. Its circuit, as marked by a wall raised in 1787. to prevent snauggling, is about fourteen miles; its greatest breadth three miles; its greatest length somewhat above five. . The original soil on which Paris' is built was a marly gypsum, and a great portion of the southern part of the city is built over the immense quarries which form the catacombs. (q. v.) The eastern sections, the suburb St. Antoine, the Quartier au Marais and the Cité are badly built. From the Cité the streets run north to the temple, and south to the pantheon, but without being broad or elegant; in recent times, the direction has been given them south to the suburb St. Germain, and north to the Tuileries. total mumber, exclusive of culs de sac, is 1142, mostly narrow. They are not so clean as they might be, since the water is carried off by only one gutter, in the centre of the street; a few of them are paved in the modern style, and provided with footpaths. The Rue, de Rivoli, Rue de Castiglione, and Rue de la Paix, are handsome The eighteen boulevards are streets. broad streets, planted on both sides with trees, and forming beautiful promenades. Those outside of the walls are called the The interior boulede exterior boulevards. vards are divided into the old, or northern, and the new, or southern, and are of

exhibit the same variety as those of Lon-Place Vendome, and the Place du Condon; instead of the gardens, parks and rousel, which separates the Pulleries country-seats which surround the great from the Louvre. The Place Pla country-seats which surround the great from the Louvre. The Place Louis capital of the world, on the banks of the XVI, or de la Concorde, in which is a Thomas. Paris on sound sides were a surround. monument erected to the memory of Louis large tracts of unenclosed cornfields. XVI, but which has recently been consecrated to the charter, is also one of the most beautiful in Paris. The Champ de Mars, Place des Victories, Place de Greve, before the Hotel de Ville, Place du Châtelet, Place des Vosgos, &c., deserve mention. The Scine, which flows from east to west, divides Paris into two unequal parts, and is crossed by nineteen.3 It is, not more than half as broad as the Thames, and, as it is not enlivened by shipping, it presents little attraction, except in the quarter of the Tu-Here, on one side are the Louvre and the Tuileries, with its gardens, and on the other, from the Palais Bourbon to the Pout Neuf, a succession of fine buildings. The older bridges were all constructed at points where the river is divided by islands. The Pont Neuf has twelve arches, and is 1020 feet long; the Pout Royal, with five arches, was built by Louis XIV; the Pout de Louis XVI, or de la Concorde, completed in 1790, has five arches: lower down the river, and opposite the Champ de Mars, is the Pont d'Iona; and higher up, opposite the Jardin des Plantes, is the Pout d'Austerlig, a fine iron bridge. The Pont des Arts, opposite the Louvre, is also of iron, but is intended merely for foot passengers. The last three were built during the reign of Napoleon, 'The Pont de l'Archeveche, of three arches, was built in 1828; the Pont des Invalides, an iron bridge, in 1829; and the Pont d'Arcole, also of iron, . in 1828. The quays are forty-nine in number: they are stone embankments, on both sides of the river, and around the islands; the whole extent is about fifteen. miles. The sewers fall into the river through arches under the quays. Many passages, or covered streets, with shops fitted up in an elegant style, have been constructed within a few years. Paris is supplied with water, partly by aqueducts, and partly from the Seine; there are eighty-six fountains in the public places and 🕽 boulevards, some of which are distinguished for their architecture. The houses are generally very high (seven or eight stories), and mostly of stone. For the magnifibence of its palaces, the French capital great length, with many streets running surpasses every other city in Europe.

Into them. Many of the trees were cut. The Louvre, the Tuileries, the Luxemdown in July, 1830. Among the finest of hours, the Pelais Royal, are described in the seventy four public places, are the separate articles. The Palais Bourbon

paris.

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on the left side of the Seine, now the of the court of cassation, deserve to be place of session of the chamber of deputies.

The chamber of deputies place of session of the chamber of deputies; the Garde Mouble, on the Place Louis XV, designed for the safe-keeping of the crown jewels, and, costly articles. "of all sorts; the Hôtel des Invalides; the military schools the Palace of the Legion of Honor; the mint; the Hotel de Ville; the Palais de Justice; the corn market (Halle au Blé); and the new Bourse (exchange), are among the other most remarkable 'public buildings. Of the churches, Notre Bame (q. v.), Ste. Generalization of the posthogon (q. v.) Ste. Scheralization of the posthogon (q. v.) St. St. Sal viève, now the pantheon (q. v.), St. Sul-pice, St. Enstache and St. Roch are the principal. The hospitals and hospices are under good arrangements. (See Hosmitals; Bland, Institutions for the; Ihumb and Deat, Sicard, Hanny, Luchaise; and for the theatres, see the latter part of this article.) The finest public monument in Paris is the column in the Place Vendôme, erected under the superinfendence of Denon, in commemoration of the victories of the campaign of 1805. It is an imitation of Trajan's pillar, in Rome, 134 feet high and 12 feet in diameter. It is of brass, and the material was furnished by the 425 cannon taken from the Austrians and Prussians in that campaign. It is covered with 378 plates of brass by Lepère, skilfully united, and containing bass-reliefs, winding round the pillar, and representing scenes of the campaign. The statue of Napobeen was removed in 1814. The triumphai arch in the Place du Carrousel is 45 feet high, and was erected after the war of 1806. In 1815, the horses of St. Mark's, which laid been placed on its summit, were claimed by the Austrians, and carried back to Venice. The Arc de l'Étoile, at the Neuilly barrier, begun in 1806, is still unfinished. The gate of St. Denis, a triumphal arch creeted by Louis XIV, is admired for its fine proportions and its execution. In 1818, a new equestrian statue of Henry IV, hi bronze, was erected on the Pont Neuf. In the Placedes Victoires, there is an equestrial statue of Louis XIV. In the new quarter, called Villa Trocadero, on the heights of Chaillot, is an obelisk 120 feet high, in commemoration of the campaign of 1823, in Spain. Paris has numerous public libraries, and the access to all is free: The royal libraschools throughout the kingdom; the ry, in the Rue Richellett, one of the first military school for the education of 500 in Europe, is rich in literary treasures and youths whose fathers have fallen in the rare manuscripts: it also contains a large brary of the national institute is small but the education of engineers, architects, select. The Bibliotheque Mazarine, those &c. The veterinary school at Alfort also

and that of peers, also, have good libraries. (See Libraries.) (Concerning the muse-um of arts in the Louvre, see Louvre, and Museum.) The nuseum of natural history, the richest of the kind in Europa, is in the buildings of the Jardin des Plantes. The extent of this collection, the rarity and richness of many of the specumens, and the excellent arrangement of the whole, doserve all praise. The garden its self, and the menagerie attached to it, are " not less worthy of attention. The museum of French monuments was intended for the preservation of the memorials of French history, taken from the different monasteries, churches and public buildings at the time of the French revolution (see Lenoir); but after the restoration, this collection was broken up. The conservatory of arts and manufactures is a large collection of models, of high interest to every artist. Paris is also the literary capital of France. At the head of the public literary institutions is the national institute. (See Institute.) At the Buredu des Longitudes are the most distinguished astronomers and geometricians. Nume-rous learned societies are devoted to the cultivation of particular departmentsmedicine, surgery, agriculture, the fine arts, manufactures, &c. The university of Paris, abolished during the revolution, but restored by Napoleon, is divided into tive faculties—theology, jurisprudence, medicine, philology, and natural science The lectures are gratuitous; the number: of students is about 4000. There are also in Paris four lyceums, called collegesthose of Louis XIV and Henry IV, the Collège Bourbon, and that of Charlemagne. The Collège Royalde France has professors of mathematics, astronomy, chemistry, history, law, Oriental languages, &c. The school for medicine and surgery is a well endowed institution. In the Jardin des Plantes, and the museum of natural history, thirteen different courses of lectures on zoölogy, mineralogy, geology, botany. &c., are delivered. In addition to those institutions, there is also a school for the fine arts. The normal school is designed for the education of instructers in the secondary service of their country; the polytechnic collection of coins and medals. The li-school, a favorite project of Napoleon, for of the arsenal, of the mining school, and deserves to be mentioned. There are also The state of the s

numerous private societies, such as the Among the principal articles four Protestant religious and philanthrop tured are le societies: the Bible society, with 120 Safts seids at branches; the missionary society; that of Christian morality, &c. The societé des bonnes lettres has been known for its absolute monarchical principles; that of the Athenée de Paris for its constitutional principles. Some of the most noted prisons are the Conciergerie; La Force; St. Pelagie, in which are confined persous guilty of political offences; the Madelonnettes, for females; the Bicetre, where criminals condemned to death and perpetual imprisonment are confined temporarily. The population of Paris, in 1791, was 610,620: the revolution, the emigration, the reign of terror, and the long wars, diminished the number, and, in 1801, it amounted to only 547,756; in 1817, it was 713,996; and, in 1827, 890,451. The movement of the population (to use a French expression) gave, in 1828, the following results:-

Births \[\frac{15,117 boys}{14,481 girls} \]

of which 10,474 were illegitimate; marriages 7282; deaths 24,557. Paris is , divided into twelve arrondissements, over each of which presides a mayor (maire); each arrowlissement is divided into four quartiers; in each quarter is a commissary of the police, and in each . arrondissement a justice of the peace. municipal council of Paris is the councilgeneral of the department of the Scine, at the head of which is the prefect of the department, who, previous to the late revolution, was appointed by the crown. A prefect of the police, whose jurisdiction extends over the whole department, has the charge of the public safety and of the · health department; he has under him a municipal guard, and a corps of surcurs-pompeurs (firemen). The national guard maintains the public peace of the city, preserves order, and defends the national liberties; their number is about 80,000. The consumption of some articles of food for 1829 was as follows:-72,590 oxen; 14,500 cows; 66,580 calves; 380,730 sheep; 85,180 hogs; and others in propor-tion. The expenditure for the city, in 1829; amounted to 51,748,117 francs; the revenue was 51,748,547. Since the be-

Salts, acids and oxides, to the	Francia
amount of	3.500.000
Refined sugar, 2	8,300,000 -
Cotton goods, 1	8,200,000
Silks and cashmeres, 1	
In horology, 1	9,765,000
In typography,	8,800,000
Bronzes	5.250.000

&c., &c. All sorts of articles of luxury and fushion are made with the greatest elegance and taste. It is estimated that 40,000 letters leave Paris daily, and 30,000 arrive during the same period. Numerous diligences' (900) run to all quarters of the kingdom, and a ready communication between all parts of the city is kept up by the fiacres, onmibuses, favorites, cabriolets, &c., &c. Those who suppose Paris to be merely a theatre of frivolity and annusement will find themselves much mistaken. That, in a population of nearly 900,000, of which above 50,000 are strangers who resort to Paris merely for pleasure, there should be a great number of licentious individuals, is to be expected; but who would judge of the character of the Parisians from the public prom-cuades of the Palais Royal? The truth is, that, in these haunts of vice, the greatest number of visitors are the strangers. In the higher classes, there is little difference in the character of society throughout Europe. In Paris, however, it is distinguished for delicacy, polish, refinement and ease. The middling class in Paris, as inall France, is strongly characterized by the strictness and elevated tone of its manners. The lower class is industrious, but improvident, and shows none of that ferocity which the excesses of the revolution of 1789 lead some people to expect: and the events of the revolution of July, 1830, exhibit the Paris populace in a very favorable light. Gayety, wit, intelligence, with decency and politeness of manners, are common to all classes of the French, particularly of the Parisians. The women in Francehave a great influence on the character of : society, and are distinguished for their grace and fascination of mapmer. Among the best French works on Paris are Dulaure's Histoire civile, physique et morale de Paris (3d edit., 8 vols., with plates, Paris, 1825); the Description de Paris, by the same; Mercier's Tubleau de Paris, ginning of the present century, the manu-ginning of the present century, the manu-factures of Paris have rapidly increased, well done, and witty, but antiquated, and it is now the principal manufacturing. Jouy's Maurs de Paris, under the titles of city in the kingdom. The value of ex. L'Hernite de la Chaussée d'Antin, Le ports for 1829 was 42,493,311 france. franc Parleur, &cc.; Landon's Description

de Paris; Lachnise's Topographie Médicale de Paris (Paris, 1822); count Claubrol's Recherches statistiques sur la Ville de Par-

is, &c.; the annual hineraires, &c.

Paris, History of. A Gallo-Celtic tribe,

the Parisii, built the ancient Lutetin, on a swainpy island in the Scitte; before the birth of Christ. The name Luletin, or city of mire, is said to have been given to the place on account of its muddy character. The inhabitants burnt it when the Romans invaded Gaul. The latter rebuilt Lutetia, fortified the place, creeted an aqueduct leading to it, and founded warm baths (thermar). But Eutetia remained insignifieast until the emperor Julian (360 A. D.) went into winter quarters there and built a palace for himself. In 486, the Franks conquered it, and made it, in 508, the capital of their kingdom. Clovis embraced the Christian faith, and lived in the palace of the therma, of which ruins are found to this day in the street Labarpe. Clotilda, his wife, completed the church Ste. Genevieve, which he had begun. About 550, Childebert commenced the building of Notre Dame: 100 years after, St. Laudry founded the hospital Hotel Dieu. Towards the end of the eighth century, Charlemagne instituted the schools from which at a later period sprung the university. In 845, the Normans besieged the city, and burnt it about 857. After Hugh Capet, count of Paris, the first king of the third race, ascended the throne, in 987, Phos remained the residence of the kings. until Louis XIV, whom the Fronde (q. v.) · had driven from the capital in 1649, made Versailles the royal residence, Hugh · Capet resided in the present Palace of Justice. The place increased, and was divided into four quarters. Under Louis the Fat, not more than about twelve france of taxes were collected monthly at the northern gate, in the neighborhood of the present street St. Martin. In 1163, bishop Maurice de Sully erreted the cathedral of Notre Dame, as it is still to be seen. In the same century, the Templars built their palace on the square, where at present is the market du Temple. In 1190 Philip Augustus, who had caused Paris to be paved, ordered a third enlargement, and invided the city into eight quarters. Until Louis XV on the place of his name, and a that period it liad but three gates; now, number of magnificent buildings. The it received fiftees. In the thirteenth century, St. Louis founded the hospital of the of Paris, which Napoleon, zealons as he

The state of the s

ed in the Place Dauphine (so called at least before the revolution of 1830; whether the name has been since changed, as in-consistent with the new order of things, we know not). Under Philip of Valois, Paris contained 150,000 inhabitants. The black death, so called, which raraged Europe about the middle of the fourteenth century, destroyed half of the inhabitants. About this time, the Hotel de Ville, on the . Place de Grève, was begun. In 1367, the fourth enlargement of Paris took place, under Charles V. Paris was now divided into sixteen quarters. Twenty years later, the Bastile was begun. Until that time Paris had two bridges; one towards the north, Le Pont au Change; the other towards the south, Le Petit Pont. In 1378, the third, Le Pont St. Michael, opposite the present street Laharpe, was built. The fourth bridge, Pont Notre Dame, was built soon after. In 1418, Paris was visited by famine and pestilence, 160,000 people perished in three months. In 1420, the capital of France was taken by the English. Charles VII drove them out in 1436. In 1465, some attempts, though very imperfect, were made to light. the streets at night. Under Louis X1, Paris contained 300,000 inhabitants. In 1563, the Jesuits established themselves there. Under Francis I, the fifth increase of Paris took place. Henry IV besieged Paris; the city surrendered in 1594, and Henry made a triumphal entry. Henry IV completed, in 1604, the Pont Neut, begun by Henry III, in 1578. In 1614, the equestrian statue of Henry IV (the first monument of this kind in France) was crected. In 1615, the palace Luxembourg (q. v.) was begun; in 1620, the Palais Royal (q. v.), in its old form; and in 1635, the Jurdin des Plantes. Louis XIV enlarged the city, and did much for the embellishment of it. In 1664, the Tuilcries, begun by Catharine of Medici, were completed; in 1665, Perrault built the colourade of the Louvre; and almost at the same time, the Hotel des Invalides (q. v.), the observatory, the gate St. Denis. Under Louis XV, the École Militaire was erected, and the church Ste. Geneviève completed. In 1763, the city erected the statue of Quinze Vingrs for the blind, and a number of convenue. After the abolition of power of Europe, and Paris the capital of the order of the Tempfurs, in 1312, Philipping the world, pursued with ardor, and active Fair, in 1314, caused the grant masses complished a great deal.—A history of paris is to a considerable degree a history

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of France, so much has this city, during the behavior of the armies must be allowed the last centuries, concentrated in itself all to have been very strictly regulated, par-' (see City); and true liberty, the life-blood which should animate all parts of the body politic, cannot be domesticated in France antil the departments and provincial towns have resumed their proper importance. The proponderance of Paris over all France, not only in a political sense, but in literature, arts, customs, &c., is immense, and was most strikingly manifested during the revolution of the last cen-1814, tury. (See France.) March 31, , the taking of Paris concluded the campaign of the allies against Napoleon-The congress of Chatillon had been broken up. (See the article Chatillon, which contains, also, the chief events of the campaign from that time to the battle before Paris, March 30, 1814.) 30,000 men under Marmont, Mortier, and Compans, with 150 cannons, occupied the fortified heights before Paris, in a semicircle, from Charenton and Nogent on the Marne to Neuilly on the Seine. By degrees 120,000 men were brought against them. With the break of day on the 30th, the battle began. After an obstinate struggle, the allies succeeded in taking the heights of Belleville; the village Lavillette was taken by assault, whilst other troops advanced through Neuilly on the Marne and Nogent sur Marne towards Vincennes, where the bridge of Charenton was taken by assault, and where 150 elèves of the veterinary school of Alfort died a heroic death. Bhicher, at the same time, drew near, the mean time, had proposed an armistice to general Schwartzenberg, which was , concluded at three o'clock. At six o'clock, counts Nesselrode, Orloff and Paar went to Paris, where the conditions of surrender were concluded on the 31st, at two o'clock in the morning. The corps of Marmont and Mortier were to leave Paris at seven o'clock, and hostilities were not to begin before nine o'clock. 'The city was recommended to the mercy of the The victory of Paris cost the latter 9000 men; the French lost 4000, besides the prisoners, and 109 cannons. The troops of the allies were kept under complaints of outrages, both in prose and

the vital action of France. This has had ticularly if compared with that of the several good and many evil consequences. French armies in Vienna, Berlin, and other great cities, where cruelty was added to injury. The French even went so far as to complain bitterly of the allies for taking the works of art which Napoleon had carried from their countries .- See, for the military movements, Koch's Mém. pourservir à l'Hist. de la Camp. de 1814 (Paris, 1819, 2 vols.).—When, after a series of the grossest blunders on the part of the Bourbons, Napoleon returned to Paris, in 1815, and lost the battle of Waterloo, Dayoust received the command of about 60,000 men for the defence of Paris. was difficult to attack the city, as formerly, from the north and east, because the heights and villages were fortified, and well supplied with artiflery. The English therefore remained before these lines. and the Prussians passed-over the Seine to attack Paris from Versailles. The city is weakest on this side, and might also be forced to surrender by cutting off all the supplies of provisions which come from Normandy. On June 30, therefore, the first and third Prussian corps marched to St. Germain; the fourth remained in its former position until the arrival of the English; and, on July 2, the third corps marched through Versailles to Plessis Piquet, the first through Vaucresson to Sevres and Mendon; the fourth, which was to act as a reserve, was placed at Versailles. The enemy had been driven back at Sevres and Plessis Piquet, as for as Vangirard and Montrouge, and had passing through St. Denis, and Mont-occupied Issy. A council of war, held at martre was taken by assault at, three Paris, almost unanimously determined o'clock in the afternoon. Marmont, in that Paris was untenable; but in order to make a last attempt, Vandamme advanced, on the morning of the third, with 10,000 men, and attacked Issy. He was repulsed after several hours fighting, and the surrender of Paris was resolved on. capitulation was concluded at St. Cloud the same day. The French army was to leave Paris within three days, and cross the Loire within eight days: Montmartre: was to be surrendered July 5, and all the barriers on the 6th. July 7, the Prussian army entered the barrier of the military " school, and part of the English army that of St. Denis. Louis XVIII arrived the next day.—To what has been said in the strict discipline. The French made loud article France respecting the revolution of 1830, we only add, as concerning Paris verse; but, though it is impossible that so more especially, that, during that short large an army should take possession of a and memorable revolution, the greatest hostile city without some cases of violence, part of the street lamps were broken;

4055 barricades thrown up with great ra-, novelty in the same style, and is satisfied pidity, consisting of the pavement terr up for the purpose, of coaches and other ve-hicles, trees, &c.; 3,125,000 paving-stones were dislodged, and the paving the streets again cost 250,000 francs. (The payement of Paris consists of large stones.)

Treaties concluded at Paris. 1. Peace between France and Spain on one side, and Great Britain and Portugal on the other, concluded Feb. 10, 1763, which ended the seven years' war. France ceded Acadia (Nova Scotia), and Canada and Cape Breton to England; but she retained the right of tishing on the banks of Newfoundland, Great Britain restored Guadaloupe, Martinico and St. Lucia to France, but retained Grenada, Dominica and Tobago, also the colony on the Senegal, and Minorca. To Spain she restored Havana, but received all Florida from Spain, while France ceded Louisiana to Spain.—2. Peace concluded Sept. 3, 1783, by Great Britain with France, Spain and the U. States, after several preliminary treaties, and on May 20, 1784, with the United Netherlands. Great Britain acknowledged the independence of the thirteen U. States; France received back with St. Law ia the other colonies, and retained Tobago and Senegal; Spain retained Minorca, and received back Florida; the Dutch were obliged to leave Negapatam in the hands of the English.—3. The peace of May 30th, 314, consisting of four separate treaties of France with Austria, Russia, Prussia and Great Britain. (See France since 1814.) The German states were to be united in a federative system: Switzerland's independence was guarantied; the house of Orange was to reign in the Netherlands, and Belgium to be added to its dominions, &c.-4. Peace or treaty of Nov. 20, 1815.; (See France since 1814.) On the same day, Austria, Russia, Great Britain and Prussia renewed the trenty of Chaumont (q. v.), and united for the maintenance of the second peace of Paris-that of Nov. 20, 1815. The two last treaties are often spoken of as the "first and second peace of Paris."

Paris Theatres. (For the history of the French drama, see the article France, division Dramatic Art and Poetry.) In genteel comedy, comic opera, and the lighter comedy, the French stage is inimitable; and a visitor in Paris cannot fail to observe the delicate taste of the Parisians of his classic poets, with an occasional Nourrit, Derivis, Dabadie, Boncl, Prevost, vol. 1x. 45

if the actors perform their parts well; but his judgment of their performance is strict, and his criticism severe. There is no city where the people attend the theatre so regularly. The English and German theatres are much below the French in deliency and refinement; any thing low or vulgar is instantly condemned in a Paris theatre, and the highest regard is paid to the modesty of the female sex. The constant noise which is heard in the English and German boxes is unknown in France; the most popular pieces are never interrupted by loud bursts of applause. The , police prevent confusion at the entrances, and each person stations himself it la queue of those already collected; that is, each stands behind another, so that several files are often formed; and no one is suffered to leave his position till the doors are opered. The number of theatres in 1830 was twenty-four. The principal are supported by the government; among them are, I. The grand opera (Académie Royale de Musigne). The richest decorations, an enchanting ballet, splendid cosmines, beautitul scenery, and a powerful orchestra of 200 musicians,—are all here united to bewilder the senses. The French beroic opera with ballets, the opera seria, and some pantomimic ballets, are represented The serious French vocalism can never be agreeable to an ear accustomed to Italian and German music, especially when it is carried to excess, as is often done in this theatre. The rhythmical recitatives and the choruses are more pleasing. On this stage, the operas of Gluck and Sacchini are, as it were, at home; and no where else in Europe have they been represented in such perfection. dances which accompany the grand operas, and the grand pantominic ballets which follow the opera, excel every thing of the kind, except the grand Italian opera in London. On no other stage on the continent is the bullet, as a whole, so complete as in the Paris grand opera. The beautiful opera house in the rue Richelieu was closed after the assassination of the duke of Berry (q. v.), in 1820, and finally taken down. The present opera house in the Chaussee d'Antin was opened in 1821; it accommodates 2000 persons. The most celebrated singers and dancers in the records of this theatre are Mad. Guimard, St. Huberty, Arnauld, Arnaud, Brancha, in every thing relating to the stage. The 'Madlle Gardel, and MM. Lais. Lainez, Ves-Parislad, in his principal theatre, witnesses tris, Gardel, Milon and Duport. The most the constant repetition of the masterpieces eminent recent performers have been MM.

and Mad. Grassavi, Dabadic, Sainville. The best female dancers were Mad. Bigotini, Hulm, Anatole, Albert, Marinette, Fanny Bias, Elic, Noblet; and the male dancers MM. Paul, Albert, Noblet, Milon, Mongoie, Capella, Coulon, Gosselin, &c., 2. Theatre Français (properly called Premier Theatre Français), in the rue Richelien, is connected with the Palais Royal. It was first opened in the Hotel Bourgogne, in the year 1513. In 1650, Molicre became an actor there. In 1689, it was removed to the rue Fosses St. Germain; in 1770, to the Tuilcries; in 1782, to the Odeon; and, in 1799, when this was burnt, to the present eduice, built by Louis. , The interior is a sort of circus. The galdery is supported by twenty-six Doric columas, which form a complete semicircle around the pit; and between these columns are the boxes. The theatre was creeted in 1787-89, and in 1822 the interior was wholly new-modelled, under the direction of Percier and Fontaine. repertory of this Stage consists solely of acknowledged masterpieces of French. classic literature, ancient and modern, both tragedy and genteer comedy. It is very seldom that a young actor ventures to attempt both these branches, and hence the actors are generally attached to one or the other exclusively. The immortal chefd'aurres of Corneille, Racine, Voltaire, Crebillon and Molière are here performed. Genteel comody seems here to be in its native home. Truth, and nature, and elevated simplicity, conspire to make the performances attractive and interesting. The scenery is truly enchanting. The following performers have rendered their rames chissic here: Baron, Brizard, Lekain, Clairyal, Mole, Larive, Fleury, Aufresne, Dufresne, Grandmenil, Grandval, Monvel, St. Phal, Preville, St. Prix, Vanhove; and the actresses Lecouvreur, Gaussin, Du-mesnil, Clairon, Devienne, Contat, Ran-court. The tragic department is now in the hands of Latont, and Mad. Duchesnois and Paradol: the comic in those of Damas, Faure, Granville, Michelot, Baptiste, Michot and Armand, in connexion with Mile. Mars (one of the first actresses that ever graced the French stage), Mad. Bourgoing, Leverd, Hervey, Dupuis and Mante. 3. The comic opera (called, also, the Comedie Lyrique and the Theatre Fevdenit) is one of the most fascinating of the Freuch theatres. The principal tomposers for this opera have been Nicolo, Mehul, Berton, Gretry, Dalayrae, Monsigny, Bovel-dieu, Blangini, Solie, Dezedes, & c.; the principal writers Etienne and Hoffman,

Bouilly, Nanteuil, Sedaine, Duval, Dupa ty, Scribe, &c. Among the best actors are Martin, whose performances, in his own department, are inimitable; Chenard,/ Juliet, Ponichard, Huet, Darancourt, Castel: and Mesdames Boulanger, Ponchard, Paul, Pradher, Rigaud, &c. 1. L'Odéon, or Second Theatre Français, in the suburb St. Germain, near the Luxembourg, was built in 1791, under the superintendence of Peyre and Wailly. It was then called the Theatre Français, as the first company to which that name had been given performed in it. In 1789, it was burnt, but was rebuilt and occupied by a second company, set up to rival the first French theatre : it was then called Thiaire de l'Odron! In 1818, it was again burnt, but was reopened in 1819. The architecture of the Odion is rich and beautiful, and its accommodations are excellent. The same pieces are performed as in the Premier Thadre Français, and the two stages are engaged in a constant competition. The older repertory of the classic French Jram atists is open to both theatres. 'Of the living poets, each stage has its distinct repertory. Mademoiselle George is the chief support of the Odion. In the claracters of Medea, Semiramis, Phadra, Metope, Agrippina, and Salome (it Le: Machabees, by Soumer, this actress as tracts the highest applause. In tragedy, Joanny, Latargue and David, and in comedy, Faure and the younger George, are the principal actors. 5. Italian opera. This theatre attracts the first society in the fashionable world of Paris. The interior is convenient and beautiful. The orchestra is considered perfect of the kind. The Italian opera is patronised by the government, as a school of vocal music, and the managers are careful to maintain a complete and skilful company. The public have here been delighted by the singing * and acting of Mad. Fodor, Gall, Pasta and The best perform is connected Cinti. with this stage have been Dongelli, Garcia, Graciani, Pellegrini, Levasseur, Bordogui, Zuchelli.-Next to these five principal theatres come the three smaller popular theatres, frequented principally by the lower classes. 6. Thédire du l'audeville, in Chartres street. 7. Gymnas Dramatique; and, &. Théatre des Variétés, both In the boulevards. These theatres display to perfection the exhaustless gayety of the French people; their wit, and disposition to make themselves merry at the most trifling occurrence, and to make the most of a bon mot or a pun. The small pieces performed in these theatres contain

no deep-laid plot, and are not accompanied by any magnificent decorations. They are written merely for wit, and seem designed to increase the natural aptness of the nation to laugh at every thing. The lash of satire, indeed, is always heard, but applied for anusement, and not to gratify malice. The songs which animate the performances are of a popular east, and are heard in every street. Nothing appears in the highest theatres which is not parodied here, and the house is frequently entertained with the tricks of har-The Gymnase was long the most popular of these three theatres, and its income exceeded that of the first Théatre The Vandeville is to present on the decline. A large number of poets write for these theatres. One of the most popular is Scribe. 9. Theatre de la Porte St. Martin : 10. Theâtre de la Gaute ; 11. Ambigu Comique, in the boulevards, represent chiefly the melo-drama, panto-mimo and bellet. The two latterare designed principally for the lower ranks; 12. In 1821, the Panorama Diramatique was opened. No pieces are performed here in which there are more than two performers. 13. In 1817, the Cirque Olympique was opened by Franconi, where horses play the chief part. 14. The Soirces de M. Coule, likewise denominated the Thedire de Magie, represents the conjunction of spirits, philosophical experiments, feats of venacifoquism, & c.

PARIS ; the son of Priam, king of Troy, by Heenba; also called Mexander. His mother, in the first month of her pregnancy, had dreamed that she should bring forth a torch, which would set fire to her palace. The soothsayers forefold the calamities which might be expected from the imprudence of her son, and which would end in the destruction of Troy. Priam, to prevent so great an evil, ordered his slave Archelaus, to destroy the child. The slave exposed him on mount Ida, where the shepherds educated him as their own son. Some attribute the preservation of his life to the tenderness of a shebear, who suckled him. Young Paris gave early proofs of courage and intrepidity, and his graceful countenance and manly , deportment recommended him to the favor of Œnone, a nymph of Ida, whoin he married. At the marriage of Peleus and Thetis, the goddess of discord (see Eris) threw into the assembly of the gods. who were at the nuptials, a golden apple, on which were written, the words Deturpulchriori. Juno, Venus and Minerva claimed the prize, and the decision was

referred to Paris. 'The goddesses appeared before their judge without any covering or ornament, and each tried, by promises and entrepties, to influence bis judgment. Juno promised him a kingdom, Minerva military glory, and Venus the fairest woman in the world for his wife Paris adjudged the prize to Venus. This decision drew upon the judge and his fam . ily the resentment of the two other goddesses. Soon after, Priam proposed a contest among his sons and other princes, and promised to reward the conqueror with the finest bull of mount Ida, which was found in the possession of Paris, who reluctantly yielded it up. The shepherd, desirous of obtaining again this tavorite animal, went to Troy, entered the lists of the combatants, and obtained the victory. Hector, enraged to see himself conquered by a stranger, pursued him closely; and Paris must have fallen a victim to his brother's resentment, had he not fled to the altar of Jupiter. Cassandra discovered that he was her brother, and Priam acknowledged Paris as his son. Paris recollected that he was to be the husband of the fairest of women. Helen was the fairest woman of the age, and Venus had promised her to him. He therefore visited Sparta, the residence of Helen, who had matried Menelabs, and was received with every mark of respect; but he abused the hospitality of Menclaus, and persuaded Helen to clope with him. (See Helen.) Greece took up arms in the cause of Menclaus: Agameranon was chosen general of the combined forces, and a war was begun. Paris fought with courage, and, according to some, killed Achilles with one of his arrows. The death of Paris is differently related.

Parts, the abbé, was the son of a counsellor to the parliament, and was born at Paris in 1690. He embraced the ecclesiastical profession, and took deacon's orders, and, in the disputes occasioned by the bull Unigenitus, attached himself to the Jansenist party. Upon the death of his father, the abbe Preis renounced all claim to his patrimonial inheritance, in favor of a younger brother, and devoted himself to a life of poverty, living in a poor little house in the suburb of Marcel. where he passed his time in prayer and in making stockings for the poor. He died in 1727, and was buried in the church-yard of St. Medard. On his death, the Jansenists used his credit to revive their sinking influence, by making his tomb the seat of their pretended miracles; and so far did the delusion gain ground, that,

in 1752, it was found necessary to have the church-yard walled up. The abbe Paris wrote a Commentary on the Gospel of St. Matthew; an Explanation of the nine first Chapters of the Epistle of St. Paul to the Romans; on the Galatians; and an Analysis of the Epistle to

· the Hebrews. (See Jansenius.)

PARIS, Maithew, an English historians, was a Benedictine monk of the congregation of Clugay, in the monastery of St. Alban's, and died in 1250. His principal work is his Historia Major, of which we have only remaining the annals of eight kings, from the beginning of the Conqueror's reign to the end of that of Henry III, the latter years being added, it is supposed, by William Rishanger, a monk of the same monastery. It is composed with candor and impartiality. He also wrote Historia Minor, an abridgment of the former, which is extent in manuscript, and some other works, which are supposed to have perished.

Paris, Plaster of. (See Gypsium.) Parisienne, La, or, properly, La Marche Parisienne; a song composed by M. Casimir Delavigne, immediately after or during the French revolution of 183). This song was, and still is, very combar, and may be compared, as to its character and the excitement which produced it, to the Marseillaise hymn. (See

Marseillaise.

Pales, Mungo; an enterprising traveller, who fell a victim to his repeated attempts to explore the interior of the African continent. His father was a farmer, and he was born near Selkirk, in Scotland, Sept. 10, 1771. He was educated for the medical profession, and, after having studied at Edinburgh for three years, was apprenticed to a surgeon of Selkirk. On quitting this situation, he went to London, and then made a voyage to the East Indies, as assistant surgeon on board one of the company's vessels. Returning to England, he engaged in an expedition to the intertropical regions of Africa, to trace . the course of the river Niger, under the patronage of the African society. He arrived on the coasts of Senegal in June, 1795, and, having made himself acquaint-. 'ed with' the Mandingo language, commenced his journey, in the course of which he encountered great dangers; in spite of which he prosecuted his undertaking till he had reached the banks of a large river, which appeared to be the object of his researches. The state of of Great Britain.)

destination to which he had been reduced, Parliament. The name parliament

proceed, and he therefore returned towards the coast, and arrived in England at the end of the year 1797. Of his interesting discoveries he published an account in his Travels in the Interior of Africa, in. 1795, '96 and '97 (4to., 1799). Mr. Park then engaged in practice as a surgeon, at Peebles, in his native country, in 1801. In 1805, Park was appointed by government to command a new expedition to explore the course of the Niger. His first journey had made known its easterly course (see Niger), but he had not been able to follow it down to its mouth. His plan now was to cross the country from the western coast, enter Bambara, construct two boats, and, embarking on the river, reach the sea. He set out from Pisania, on the Gambia, in April, with thirty-six Europeans, of whom thirty were soldiers, and the rest mechanics, and liberally provided with presents and merchandise. His impatience had led him to set out in the wet season, and of thirtyeight men who had left the coast with him, seven only survived when he reached the Niger, in August. Having finally procured permission to build a boat at Sansanding, he embarked at that place November 17. Four Europeans only ser vived to embark with him. Some time laying clapsed without any intelligence being received of him, Isaaco, his interpreter (who had been sent back with communications from the Niger), was despatched to procure information. Isaaco succeeded in finding the person who had taken his place as interpreter, and from him received a journal containing an account of the voyage, from which it appeared, that the party was attacked by the natives at Boussa, and all killed, with the exception of one slave. Clapperton (q. v.), in his second journey, received accounts confirming this statement, and visited the spot where the trayellers perished. He was also informed that the sultan of Youri had some of Park's papers, which he was willing to give up to him, if he would pay him a visit. The Landers (q. v.) also visited the place, and were shown by the sultan, or king, one of Park's books, which they describe as a nautical book, containing . tables of logarithms. The Journal of Park's second Expedition was published, with a memoir of his life, in 1815.

PARK OF ARTILLERY. (See Artillery.) PARLEMENT. (See the next article for the French parliaments and the parliament

parendered it almost impossible for him to (French, purlement) was formerly given

to the highest courts in France, Naples, and some other countries. They originsted from the ancient diets and courie, held by the kings, which were called par-· limiteds, particularly if held at extraordinary times. The barons decided legal cases, with the aid of the clergy, the magnates, and the chancellor, as was natand in times when the three branches of government were so confusedly mingled, . But the kings of France soon appointed coansellors versed in the law to decide the complaints and appeals brought to their court by the inhabitants of their hereditary lands; and the same was done by the feudal princes, the dukes of Normandy, Guienne, Burgundy, Brittany, and the prince-counts of Champagne, Tou-louse, Provence, &c. These counsellors were not, originally, proper Judges, but merely made reports, and always followed the court. But what John of England had been obliged to promise in the Magna Charta, as early as 1215,—a permanent court confined to one place,-was, by stegrees, demanded in all countries. Plaip IV (the Fair) of France established a permanent court at Paris, in 1291, for the provinces belonging to the immediate domains of the crown, which were divided into four districts. In 1305, this institution was enlarged. In the beginning, this court held but two sessions annually, continuing, however, for weeks and months, viz. at Easter and All-Saints; but when the business of the court increased, its sessions became permanent, in 11:2. The vassals of the royal hereditary dominious had wats and votes in the parliament, which, at a later period, passed over to the peers of France; but the business actually fell apon the counsellors, who were lawyers. The parliament of Paris consisted, before the French revolution, of five chambers, the grand chambre, with ten presidents, twenty-five temporal and twelve spiritual counsellors, three chumbres des enquêtes, each with two presidents and twenty-three counsellors, and the chambre des requetes, with two presidents and fourteen come sellors. Criminal cases were tried in the chambre de la Tournelle, in which menbers of all the chambers sat in turn. The crown advocates (q. v.) belonged also to the parliaments, with above 500 lawyers and a great number of subalterns. Some of the feudal principalities, even before their union with the crown, had similar tribunals; the county of Toulouse, for first things overthrown. In the article instance, had a parliament, Normandy France, division France before the Revoher great feudal court (scaccurium or echi- bution, we have spoken of the political in-45 *

the crown, parliaments were erected, by degrees, for the other provinces; at Toulouse, at Grenoble for Dauphine, Bordeaux for Guicune, Dijon for Burgundy, Besançon for Franche Comté, Rouen, Aix for Provence, Pau for Bearn, Rennes for Brittany, Metz for the three bishopries Metz, Toul and Verdan, Donay for Flanders, and Nancy for Lorrame. The form of publication of the royal decrees consisted in sending them to the parliaments, which entered them in the registers, and transmitted them to the lower courts. This gave to these courts a peculiar political influence. They insisted that they had the right to make protestations to the king against decrees, and that thus they represented the estates of the realm. In early times, the court sometimes yielded. From the time of Louis XIV, however, the registering of the decree was generalbusined by the king's appearing personally in parliament, when no debute was permitted, and the registering was ordered (lit de justice, q. v.). Refractory parliaments were banished to Tours, Compiegne, Orleans. But the resistance bi' the parliaments could not always be thus overcome. The parliaments whose members had bought their places, for the sake of the dignity, showed great obstinacy, and it was sometimes necessary to yield to them. Hence Louis XV, towards the end of his reign, adopted a holder and more fundamental measure: all the old parlia ments were abolished in 1771, the sums for which the places had been bought were paid back, the new places filled by the king only, and the old members, in part, banished to small and remote towns, and, in part, imprisoned. For a long time, no lawyer was willing to plead be-For a long fore the new courts; and when, at length, the administration of justice was recommenced, the king died, and Louis XVI restored the old perliaments. They immediately renewed their apposition to the court, the ministers, and the superior clergy; refusing every thing, just and unjust, desired by the court. The arch-bishop of Sens abolished them again in 1788; but the courts established by him were acknowledged by no ones At length, the parliament declared that the assembly of the states-general alone was capable of granting what the government desired, and thus gave the signal to that revolution in which it was one of the quier) at Rouen. After the union with fluence of these bodies upon the whole

organization of government. They assumed all characters, the judicial, legislative, and often executive. We refer, for further information, to Meyer's Esprit, Origine et Progrès des Institutions Judiciares des principaux Pays de l'Europe

(Hague, 1819).

Parliament of Great Britain. Asketch of its constitutional power and organ-Mation is given in the article Great Britain! If important changes should take place in its organization before we arrive at the article Reform, they will be treated under that head. At present we shall only give some particulars respecting the forms of doing buisness in parliament. The method of making laws is much the same in both houses. In each house the act of the majority binds the whole; and this majority is declared by votes openly given; not privately or by ballot. bring a bill into the house of commit . if the relief sought by it is of a private nature, it is first necessary to prefer a petition; which must be presented by a member, and usually sets forth the grievance desired to be remedied. This petition (whon founded on facts that may be disputed) is referred to a committee of members, who examine the matter alleged, and report to the house; and then (or otherwise upon the mere petition) leave is given to bring in the bill. In public matters, the bill is brought in upon motion made to the house, without any petition. The the house of lords, if the bill begins there, it is, when of a private nature, referred to two of the judges, to examine and report the state of the facts alleged, to see that all necessary parties consent, and to settle all points of technical propriety.) This is read a first time, and, after a convenient interval, a second time; and, after each reading, the speaker puts ... the question whether it shall proceed any further. The introduction of the bills may be originally opposed, as the bill itself may, at either of the readings; and if the opposition succeeds, the bill must be dropped for that session; as it · must, also, if opposed with success in any of the subsequent stages. After the second reading, it is committed, that is, referred to a committee, which is either selected by the house in matters of small importance, or else, if the bill is a matter of great or national consequence, the house resolves itself into a committee of the whole house. A committee of the whole house is composed of every meniber; and, to form it, the speaker quits the chair (another member being appointed

chairman, and may sit and debate as a private member. In these committees, the bill is debated clause by clause, amendments made, the blanks filled up, and sometimes the bill entirely new-modelled. After it has gone through the committee, the chairman reports it to the house, with such amendments as the committee have made; and then the house re-consider the whole bill again, and the question is repeatedly put upon every clause and amendment. When the house have agreed or disagreed to the amendments of the committee, and sometimes added new amendments of their own, the bill is then ordered to be engrossed, or written in a strong, gross hand, on one or more long rolls of parchment sewed together. When this is finished, it is read a third time, and amendments are sometimes: then made to it; and, if a new clause be added, it is done by tacking a separate piece of parchment on the bill, which is called a rider. The speaker then again opens the contents, and, holding it up in his hands, puts the question whether the bill shall pass. If this be agreed to, the title is then settled. After this, one of the members is directed to carry it to the lords, and desire their concurrence, who, attended by several more, carries it to the bar of the house of peers, and there delivers it to their speaker, who comes down from his woolsack to receive it. It there passes through the same forms as in the other house (except engrossing, which is already done), and if rejected, no more notice is taken, but it passes sub silentio, to prevent unbecoming alterentions. But if it be agreed to, the lords send a message by two masters in chancery (or, sometimes, in matters of high importance, by two of the judges), that they have agreed to the same; and the bill remains with the lords, if they have made no amendment to it. But if any amendments are made, such amendments are sent down with the bill to receive the concurrence If the commons of the commons. disagree to the amendments, a conferonce usually follows between members deputed from each house, who, for the most part, settle and adjust the difference; but if both houses remain inflexible, the bill is dropped. If the commons agree to the amendments, the bill is sent back to. the lords by one of the members, with a message to acquaint them therewith. The same forms are observed, mutatis naturalis, when the bill begins in the house of lords. But when an act of grace or pardon is passed, it is first signed by

his majesty, and then read once only in each of the houses, without any new engrossing or amendment. And when both houses have done with any bill, it always is deposited in the house of peers, to wait the royal assent, except in the case of a money bill; which, after receiving the concurrence of the lords, is sent back to the house of commons. The answer to the question put by the speaker, or the chairman, in the house of commons, is Aye, or No; and, in the house of peers, Content, or . Vot content. The royal assent. to bills may be given, 1. in person. When the king is to pass bills in person, he appears on his throne in the house of peers, in his royal robes, with the crown on his head, and attended by his great officers of state and heralds, and sends for the house of commons to the house of neers; the speaker carries up the money bill, or bills, in his hand; and, in delivering them, he addresses his majesty in a solemn speech, in which he seldon fails to extel the generosity and loyalty of the commons, and to tell his majesty how necessary it is to be trugal of the public money. The titles of all bills that have passed both. houses are read; and the king's answer is declared by the clerk of the parliament in Norman-French. If the king consents to a public bill, the clerk usually declares, Le roy le reut (The king wills it so to be); it to a private bill, Soit fait comme it est desire (be it as it is desired). If the king refuses his assent, it is in the gentle language of Le roy s'abisera (The king will advise upon it). When a money bill is passed, it is carried up and presented to the king by the speaker of the house of commons, and the royal assent is thus expressed, Le roy remercie ses loyaux sujets. accepte leur bénévolence, et aussi le reut (The king thanks his loyal subjects, accepts their benevolence, and wills it so to be). In case of an act of grace, which originally proceeds from the crown, and has the royal assent in the first stage of it, the clerk of the parliament thus pronounces the gratitude of the subject; Le prélais, seigneurs, et communs, en ce present parlement assemblées, au nom de tous vous ; autres sujets, remercient très humblement votre majesté, et prient à Dieu vous donner en santé bonne vie, et longue (The prelates, lords, and commons, in this present parhament assembled, in the name of all tions of the city, are the ducal palace, with your other subjects, most humbly thank

hand, and notified, in his absence, to both houses assembled together in the upper house, by commissioners consisting of certain peers, named in the letters. And, when the bill has received the royal assent in either of these ways, it is then, and not before, a statute or act of parliament. This statute or act is placed among the . records of the kingdom; there needing no . formal promulgation to give it the force of a law, as was necessary by the civil law with regard to the emperor's edicts; because every man in England is, in judgment of law, party to the making of an act of parliament, being present thereat by his representatives. However, copies thereof are usually printed at the king's press, for the information of the whole land. An act of parliament cannot be altered, amended, dispensed with, sus pended, or repeated, but in the same forms, and by the same authority of parliament; for it is a maxim in law, that it requires the same strength to dissolve as to create an obligation. The forms of doing basiness in the congress of the U. States are substantially the same as in the English parliament.

PARMA; a duchy in Upper Italy, bounded by the Milanese on the north and west, by the Modenese on the east, and the Apennines on the south, and composed of the duchies of Parma, Piacenza and Guastalla; 2200 square nules; 419,201 inhabitants. It is hilly, but fertile and highly cultivated, yielding scorn, wine (rino santo), silk, oil, hemp. The breeding of sheep is also much attended to. The principal manufacture is that of silk. The capital, Parma, on a river of the same name, is a fortified place, with 35,000 in-The streets are for the most part handsome, and the houses well built. The churches contain the masterpieces of Correggio, Lanfranco and Mazzuoli (surnamed it Parmegiano), who were born The cathedral contains the celebrated fresco* of Correggio, the Assump-. tion of the Virgin Mary, which is much injured, and the church of the Holy Sepulchre, the Madonna della Scuddla of the same master. The church of the Madonna della Steecata is worth visiting for the monuments of the Farnese, and the capuchin monastery for its pointings. Among the other buildings and institua gallery of paintings and works of art, your majesty, and pray to God to grant the finest pieces of which, however, were you in health a long and happy life), carried to Naples in 1734; an excellent 2. The king may give his assent by letters library; an academy of belles-lettres and patent under his great seal signed with his the fine arts, founded in 1765; the uni-

versity, with 400 students; the opera house, built in 1618, which is the largest in Europe: the theatre, &c. The Bodoni press, to which belong manuscripts in 200 languages, is one of the first in Eu-Parma, with Piacenza, anciently belonged to Cisalpine Gaul, and, at a later period, to the confederacy of Lombard cities. The houses of Este and Visconti were in possession of Parma for some Louis XII conquered both cities; and, after the dissolution of the league of Cambray (1508), pope Julius II reduced them. Pope Paul III, of the house of Farnese (q. v.), raised Parma, with Piacenza, to a duchy, and conferred it on his natural son. On the extinction of the male Farnese line, don Carlos, son of Philip V of Spain and Elizabeth Farnese, received the duchies of Parma and Piacenza, which, on his accession to the throne of the Two Sicilies, were ceded to the emperor by way of indemnification. By the peace of Aix-la-Chapelle (1748), Austria coded Parma, Piacenza and Gunstalla to the Spanish Infant don Philip, whose 'son Perdinand preserved his estates; but, on his death in 1802, France took possession of them, his son being created king of Etruria. In 1805, Parma, Piacenza and Guastalla were incorporated with the French empire, and, by the peace of Paris (1814) and the decree of the congress of Vienna (1815), were transterred to Maria Louisa, empress of France and archduchess of Austria. Spain protested against this arrangement, and claimed them for Maria Louisa, widow of the king of Egruria (duchess of Lucca), whose husband had relipquished them only on condition of receiving Etruria. (q. v.) In 1817, a new convention was therefore concluded, by which it was stipulated, that, on the death of the exempress, they should pass (with the excoption of some districts on the left bank Sof the Po, and the right of maintaining a garrison in Piacenza, reserved to Austria) to the duchess of Lucca and her male posterity... Lucca (q. v.) will then pass to the grand-duke of Tuscany, who, in re-turn, will cede his estates in Bohemia to the duke of Reichstadt, son of Napoleon. Parmegiand, or Parmegianiso. (See

Mazzola.)

Parmenides; a Greek philosopher of Files, who developed more fully the spec-· ulative views of Xenoplanes, his friend' and instructer, and is therefore the most relebrated of the Bleatic school. He flourished about the 79th Olympiad, and seems to have gone to Athens in the 80th,

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or B. C. 460. Here Socrates, then a young man, probably saw him. He was or B. C. 460. highly extremed by the ancients, not merely as a speculative philosopher, but as the wise lawgiver of Elea. He accurately distinguished between the knowledge gained from reason and that obtained from the senses. The pure existence from the notion of which he proceeded, is known only by reason; it is one, unchangeable and eternal, limited only by itself, and consequently filling space. Change and motion, on the contrary, are only appearances. He also proposed a theory on sensual phenomena. In this theory, he adopted heat and light, or fire, and cold and darkness, or the earth, as opposite principles. Fragments of his philosophical poem on nature are found in Stephens, also collected with a translation by Fülleborn (Züllichau, 1795), and in Brandis's Commentationes Electica, P. 1. (Altona, 1813).

Parmesan Cheese. (See Lodi.) Parnassus (now Ladkura); a mountain in the ancient Phocis (now Roumili), at the foot of which lay Delphi (q. v.), with the fountain of Castalia, in whose crystal waters the priestess and those who consulted her were required to purify themselves. Parnassus was sacred to Apollo and the Muses. It has two peaks, of which the southern was called Humanea, the north-western Tithorea. The highest summit was called Luconeus; on it the

Bacchantes celebrated their orgies. PARNULL, Thomas, an Unglish poet, was born in Dublin, in 1679, . He was educated at Trinity college, and, taking orders in 1705, was presented to the archdeaconry of Clogher. He was connected with Addison, Congreve, Steele, and other whigs in power; but, towards the latter part of queen Anne's reign, when the tories became triumphant, he deserted his former friends, and linked himself with Swift, Pope, Gay, and Arbuthnot. He afforded Pope some assistance in his translation of Homor, and wrote the Life prefixed to it; but, being a very bad prose writer, Pope had a great deal of trouble in correcting it. He contributed to the Origin of the Sciences, and wrote the. Life of Zoilus, as a satire on Dennis and Theobald, with whom the Scriblerus club had long been at variance. By Swift's recommendation, he obtained a prebend and the valuable living of Fingless, but finally contracted habits of intemperance, which shortened his life. He died in 1717. A collection of his poems was published by Pope after his death. They

are pleasing, and possess fancy, case, sprightliness, and melody of versification: while their sentiments are elegant, and morality pure. Another posthumous vol-. ume was published at Dublin, in 1758.

PARNY, chevalier Evarist de, called the French Tibullus, was born in the Isle of France, in 1742, went to France in 1753, studied at Paris and Rennes, was for some time seized with a religious zeal, and wished to become a Trappist, but finally entered the military service. He then returned to the Isle of France, where a disappointed passion for a young girl, known to us under the name of Eleonore, made him a poet. Grace and tenderness of sentiment, depth of feeling, richness of imagination, united with harmony, and case of versification, were the characteristies of his elegies, which placed him in the first rank of classical French poets. His Epitre aux Insurgents de Boston (Epistle to the Boston Rebels), published in 1777, deprived him of any hopes of ministerial favor. Besides his elegies, he also wrote La Guerre des Dieux, Le Porte-feuille roll, and Les Rosceroix. The first of these poems-an attempt to throw ridicule on Christianity---was an imitation of Voltaire's Pucelle. In the second work above mentioned. Les Déguisements de Lenus is distinguished for grace and treshness of description. Several other works of Parny, which it is unnecessary, to mention, were violations of the rules of decency and good morals, and he was in consequence excluded from the institute on its first organization. In 1808, however, he was admitted into that body. His death took place in December, 1814.

PARODY. The Greeks gave this name . to humorous poems, or to parts of them, in which whole passages or single expressions were taken from serious compositions. Atheneus, has preserved a poem of this kind by Matron, and calls Hipponax (q. v.) the inventor; but, according to Aristotle, Hegemon of Thasus invented them. Aristophanes is full or such parodies. By parody, at present, is generated in which a go-Aristophanes is full of such rally meant a composition in which a scrious composition has been transformed cary of Harrow, in Middlesex, where he by changing its subject into unother, either serious or comic, most commonly the latter; hence a parody, in its narrower sense, is the same as a travesty. In a still narrower sense, parody means a poem in which merely the chief personages and ideas are changed, but the subordinate parts and the whole tone are preserved, as in the Battle of the Frogs and Mice.

Contrast is the chief instrument of parudy, and as mere contrast, by exciting surprise, often produces, for a time, the effect of wit, poor parodies often please for a moment by boldness in applying the gravest expressions to the most comic subjects, or the reverse.

PAROLE; a term signifying any thing done verbally, or by word of mouth, in contradistraction to what is written; thus an agreement may be by parole. Evidence, also, may be divided into parole evidence and written evidence. (See Evidence.)-In military affairs, a promise given by a prisoner of war, when he has leave to depart from custody, that he will return at the time appointed unless discharged, It is also used for a word given out every day in orders by a commanding officer, in a camp or garrison, by which friends may be distinguished from enemics.

PARONOMASIA; a rhetorical figure by which different ideas are expressed by words of similar sound or the same extraction, in order to make the difference more striking; for instance:--

Not friends, but heads, are here

PAROQUET. (See Parrot.) PAROS; an island of the Grecian Archipelago, in the Central Cyclades, to the west of Naxos, with a population of 2000 Greeks. The island is mountainous, but . fertile and well cultivated; square miles, Paros was celebrated, in ancient times, for its marble, which was remarkable for its whiteness and firmness, and withstood the action of the weather better than any other sort. (See Marble.) The famous Parian chronicle was taken hence in 1627. (See Archdelian Marbles.) Many remains of ancient buildings are still found in the island. Near it lies the island of Antiparos, with 500 inhabitants. It was the birth-place of Phidias and Praxiteles, and contains a celebrated grotto or cave, full of fine stulactites.

PAROXYSM OF A FEVER. (See Fever, vol. v, p. 103.)

PARR, Catharine. (Sec Catharine Parr.) PARR, Samuel, a tearned divine and eminent critic, was the son of an apothewas born in 1747. At the age of six, he was admitted into the celebrated school. of his native place, which he headed in . his fourteenth year. He entered Emmanuel college, Cambridge; but, unable to support the expense, accepted the situation of usher at Harrow. In 1769, he entered into deacon's orders, and, in 1771, was created A. M. at Cambridge, by royal

mandate, for the purpose of qualifying bishop Halifax from the charge of having him to succeed doctor Sumner, in the become a convert to the church of Rome. mastership of Harrow school; but, not suc-: in his last sickness. His death took place ceeding, he opened a school at Staumore, and in 1776 became master of the gram- * minth year. In curious and elegant classimar school at Colchester, whence, in 1778, he removed to take charge of that of Norwich. In 1783, he obtained the perpetual curacy of Hatton, in Warwickshire, where he afterwards resided, and was presented by bishop Lowth to a prebend in the cathedral of St. Paul. In 1802, sir Francis Burdett presented him to the valuable living of Graffiam, in the county of Huntingdon. Doctor Parr commenced is career as an author in 1760, by the publication of Two Sermons on Education; and, in the following year, printed a Discourse on the late Fast, which, in consequence of its allusion to the contest with America, excited great attention. In 1787, he assisted his friend Henry Homer n a new edition of the learned Scotsman William Bellenden (Bellendenus). This republication he inscribed to Messrs. Fox and Burke and lord North, the character of whose oratory he drew with un-Making use of the same opportunity to assail that of their political opponents, he put an end to all hopes of preferment from government, on which account a subscription was made by the whig club, which secured him an annuity of £300 per annum. In 1789, he republished the Tracts by Warburton and a Warburtonian, to which he prefixed some severe strictures on bishop Hurd. In 1790, he engaged in the controversy on the real authorship of White's Bumpton Lectures, from which it appeared that his own share in them was by no means inconsiderable. 1791, his residence was in some danger of destruction from the Birmingham rioters, in consequence of his intimacy with doctor Priestley. On this occasion, he published a tract, entitled a Letter from frenopolis to the Inhabitants of Eleuthe-On Easter-Fuesday, 1800, he preached his celebrated Spital sermon, in which he attacked the social doctrine of Godwin's Political Justice. This discourse he soon after published, with notes. On the death of Mr. Fox appeared his Characters of the late Right Honorable Charles James Fox, selected, and, in part, written, by Philopatris Varvicensis. In 1819, he reprinted Speeches by Roger Long and John Taylor, of Cambridge, with a critical Essay, and Memoirs of the Authors, and composed a pamphlet,

at Hatton, March 26, 1825, in his seventycal knowledge, he seems to have been at the head of the English scholars of his day. His prodigious memory and extent of research rendered him very powerful in conversation. His Works, with a Memoir, by Johnson, appeared in 8 vols. Sto. (Loudon, 1828); and Memoirs of Doctor Parr, &c., by Field (2 vols., 8vo., 1828).

PARRAKEET, OF PAROQUET. (See Parrot.)

PARRHASIUS, a Greek painter, born at Ephesus, flourished about 420 B. C. He was a contemporary and rival of Zenxis. (q. v.) According to Pliny, he was the first who introduced proportion into painting, lively expression and grace into the countenance and attitude, and he excelled all other painters in design. Several of his pictures are mentioned by ancient authors, but none of them has been preserved. His success rendered him arrogant; according to Athenaus, he clothed himself in purple, wore a gold wreath on his head... and pretended to be descended from Apollo, one of whose surnames was Par-

rhasius. (See Painting.)
PARROT (psittacus). This splendid genus includes about 170 species. The luxuriant tracts of the torrid zone seem to be the favorite residence of these noisy, numerous, and richly-phunaged tribes. They are not, however, as was supposed by Buffou, confined to that zone, as later discoveries have shown that they are found in this continent as far south as the strats of Magellan, and on the shores of Van Diemen's Land; and one species in the U. States is resident as far north as 427. Bill booked; upper mandible movable, and, for the most part, covered with; a case; nostrils rounded, basal; tongue, in most of the species, fleshy, obtuse and entire; feet formed for climbing. They assist themselves in climbing with the bill, associate in pairs or flocks, feed on the seeds and fruits of various plants, often attain to a great age, and, by means of their obtuse tongue, and the conformation of their larynx, may be taught to imitate the human speech. They are of a great variety of sizes, from that of the domestic fowl to that of a sparrow. The macay has been described in a separate article. The pavouane parrot (P. Guianensis) is found in the Antilles and Guiana, where which appeared after his death, defending it assembles in large flocks, and does great 1

injury to the coffee plantations. ring paroquet (P. Alexandri), which is remarkable for its docility and imitative powers, seems to have been the only species known to the earlier Greeks and Romans, having been brought from Ceylon afterwards obtained other species from Africa. Common gray parrot (P. erithacus), about the size of a small pigeou, is remarkable for its loquacity, docility, and distinctness of articulation. It is common in many parts of Africa. Individuals of It is common this species are known to have lived about 100 years. The common green parrot (P. Amuzonius, Shaw), of which the varicties are very numerous, is a native of South America. The Guinea parrot (P. pullarius) is a highly beautiful species, about five inches in length, and is found in the Last Indies and Africa. They easily imitate other birds, but articulate with difficulty. The only species found native in the U. States is the Carolina or Illinois parrot (P. Carolinensis), which is resident from the gulf of Mexico to the neighborhood of lake Michigan, and on the east of the Alleghanies to Maryland, and occasionally strays into New York. favorite food is the seeds of the cockle bur, which grows in great abundance along the shores of the Mississippi and the Ohio. They are seen in large flocks, screaming round the salt licks, being, like the pigeons, fond of the salt water. They are very sociable in their dispositions, extremely fond of each other, and showing the greatest grief for the loss of their companions. The plumage is very beautiful, the general color being a brightyellowish, silky green, with light-blue re-flections. The tail is long and cunciform. These birds are about thirteen inches long and twenty-one in extent.

Parry, William Edward, captain. This active officer, whose mame will be enrolled with those of Baffin, Hudson, Forbisher, and other great navigators, is the son of doctor Parry, of Bath, and was born in 1790. The rudiments of his education he received at the grammar school of Bath, and, at the age of twelve, he was placed on board the Ville de Paris; and, from 1803 to 1806, he continued on board the same ship, employed in blockading the French fleet in Brest. During this time, he attended closely to geometry, navigation, French, and other useful branches of learning. His behavior was exemplary: admiral Cornwallis said of him, "He has been the pattern of good

The the Ville de Paris he removed, in May, to the Tribune frigate, which, during 1806. 1807 and 1808, was constantly blockading or cruising, and encountered some of the heaviest gales which had been experienced by the oldest scamen. In January, after the expedition of Alexander. They 1807, he was sent in a bout by his commander, to reconnoitre in Concarneau, bay, and he 'executed his commission with such courage as to approach close to a French line-of-battle ship, and such ability as to remain undiscovered by her. In April, 1808, the Tribune was sent into the Baltic, to which sea she returned in the following year. This service was a fatiguing and perilous one, which, never theless, did not acquire for those who were engaged in it all the credit that they deserved. The swarms of Danish gun boats which issued from the ports of Den mark were most formidable enemies, being of a low construction, and having, in action, the power of attacking a ship-ofwar in whatever direction they chose, and with an overwhelming number of guns, while she could reply with only a few, and those, in some instances, not ca: pable of carrying a shot so far as the long guns of the enemy. At the age of mineteen, Mr. Parry passed his examination, and was promoted to the rank of lieutenant, through the interest of lord Lowther. He joined the Alexandria frigate in 1810, and served that year in the Baltic; where he was several times engaged with Daonish schooners and gun-boats. In 1811 and 1812, he was on the Leith station, employed in proteeting the Greenland whale fishery. During his leisure moments, he was not inactive. He prepared charts of the Baltic navigation; he spent part of the night in studying the situation of the principal fixed stars in our hemisphere; and he made a survey of Baltic sound, and the Voe, in Shetland, an excellent harbor, which was little known. The description of his mode of observing the stars, in order to obtain the latitude and longitude at sea by night, he at first distributed in manuscript among the junior officers, and afterwards printed. In 1813, under a promise of promotion-of which, however, circumstances prevented the performance—he sailed to Halitax, and was occupied on board the La Hogue, in cruising in pursuit of commodore Rogers. In 1816, he obtained a first lieutenancy in the Niger, which was stationed off Halifax, and the river St. Lawrence and Quebec. Early in 1817, he obtained leave to return to England. When the first expeconduct to all our young people." From dition of discovery towards the north pole

was fitted out, lieutenant Parry was so strongly recommended to the admiralty. that he was appointed to the command of the Alexander, under the orders of captain Ross, in the Isabella. It is well known that the sudden resolution of captain Ross (q. v.) to return to England, adopted in consequence of his supposing that he saw land at the bottom of Lancaster sound, excited general dissatisfaction. The reasons for believing captain Ross to have been mistaken were so strong, that a second expedition was resolved upon, the command of which was intrusted solely to Mr. Parry, who was allowed to select his own ship, and was consulted as to the appointment of his officers. The ships departed in May, 1819, and returned in November, 1820, after having penetrated into the Polar sea as far as the 110th degree of west longitude, and wintered on one of the newly discovered islands. The officers and crews thus became entitled to the parliamentary reward of £5000. • (See North Polar Expeditions.) In the ardnous situation in which he was placed, Mr. Parry displayed not merely the skill of an officer, but the qualities of a man of talent. The means which he devised to keep the men in health and spirits, by preventing their bodies from sinking into inaction, and their minds into listlessness and torpor, were such as prove him to possess a more than common intellect. On his return, he was promoted to the rank of commander. For the manuscript journal. of this expedition he received from the publisher £1000 sterling. In 1821, in company with captain Lyon, he undertook a third expedition to discover a north-west passage, and returned in 1824. Our knowledge of the coasts, bays and · islands of the Arctic ocean has been much extended by his Journal of a second Voyage for the Discovery of the North-West Passage, performed in the Years 1821, 1822 and 1823, in his Majesty's Ships Fury and Hecla (with engravings, London, 1824, 4to.), together with an Appendix, containing the Natural History, &c. In the summer of 1824, captain Parry undertook his fourth north-western expedition; and, in October, 1825, he was obliged to return in the Hecla, having lost the Fury among the icchergs of the Arctic seas. He had spent the winter, with both his vessels, in-Prince Regent's bay, at lat. 71° N.—See his Journal of a third Voyage, &c., 1824-25 (London, 1826, 4to.).—One of the most important results of these expeditions was the examination of the straits which separate America from Greenland,

called Barrow's straits, in honor of Barrow the geographer who planned the voyages. March 25, 1827, he set out on a fourth expedition with the Hecla, intending to advance from Spitzbergen to the pole on sledges; but, in October of the same year, he returned, without having accomplished his purpose.—See his Narrative of an Attempt to reach the North Pole (London, 1828).

PARSEES. (See Guebers.)

PARSLEY (apium petroselinum); a wellknown garden vegetable, used for communicating an aromatic and agreeable flavor to soups and other dishes. The root is elongated and whitish; the stem upright, three or four feet high, striated and branching; the leaves doubly pinnate, with the leaflets of the inferior part of the stem oval, wedge-shaped and incised, and the superior ones linear: the flowers are small, yellowish white. It belongs to the natural family umbellifere, and is supposed to have been brought originally from Sardinia, though now common throughout the south of Europe. All domestic quadrupeds are fond of the leaves. but they are a dangerous poison to pealury and other birds.-Parsley is sown from: March to August, and the leaves may be cut several times during the summer, provided that care is taken to water the plants in times of drought. As the root is biennial, the flowers and seeds do not apear until the second season; and, if cut before flowering, the duration of the plant is frequently prolonged another season. -Celery is a second species of apimu, and, in its wild state, is a small, acrid and novious plant, but, from cultivation, has become one of our most valuable salads.

Parsner (pastinaca satira); a wellknown culinary vegetable, a native of the south of Europe, and now naturalized in many parts of the U. States. The root is biennial and fleshy; the stem herbaceous, upright, striated, rigid and branching; the leaves pinnate, alternate, and sheathing at the base, composed of oval, slightly lobed The flowers are and incised leaflets. small, yellow, and are disposed in umbels, as is usual with the umbellifera. In the wild plant, the leaves and stem are hairy; but, when cultivated, they become smooth, and the root is larger and more succulent. -Parsneps are sweetish, and slightly arematic to the taste. Besides their use for the table, they are often cultivated on an extensive scale as fodder for cattle. The milk of cows is improved in quality, and the quantity is increased, by their use, and, besides, yields butter of a fine saffron

velow, and excellent flavor. Indeed, all donestic quadrupeds are extremely fond of them. As an article of food for man, they are agreeable to most palates, and are clesidered wholesome and highly murito as. They may remain in the ground ad wimer, as they are not liable to injury tion frosts, and may be taken up as re-, aired. They are sown in the autumn, congressive frequently in the spring, and the recease in perfection about the end of *eptember.- From the pastinoca opoponax, a naive of the countries about the Mediterraneau, is obtained a gum-resin, which s famous in the 'Last for curing all kinds et maladies.

Parsons, Theophilus, a distinguished chaef-pistice of Massachusetts, was born ar Vebruary, 1750, m. Byctield, Maswhosens. His father was minister of that parish. His youth was assidnously by vited to the study of the Latin and George Emonyges, Logic, metaphysics, and the mathematical sciences, He was amated at Cambridge in 1769, whel law in Fahrenth, now Portland, and kept for some time the grammar scient in that town. He practised law there a few years; but, in consequence of the destruction of the town by the halish, he retired to the house of his mace or Newbury. In about a year from this time, he opened his office in Never was finne more Newboryport. constant of Parsons as Crwyer. At an age when most of the polission are but beginning to exhibit the attalents, and to take a fixed rank at the bar, he was confessedly, in point of but I knowledge, among the first of its professors. His professional services were generally sought for, not merely in his carive county, but in the neighboring state of New Hampshire and in Boston. Havarg entered upon business early in our a solutionary war, when the courts of admetalty purisdiction were crowded with crosses, in the management of which he and a large share, he was led to study with diligence the civil law, the law of nations, and the principles of belligerent and neutral rights. After thirty-five years extensive practice, he succeeded chiefustice Dana in the supreme judicial court of Massa Insetts in 1806. The regularity of trials, and the promptness and correctness of decisions throughout the commonwealth, soon atte-ted the beneficial effects of his labors. The first six volumes of the reports of the court in which he presided are a monument of his accurate paridical reasonings, and his deep and ex-

tensive knowledge of the common law, and the constitutions and statutes of his country.-As regards his political character, although unwilling to take so great a share in public councils as his townsmen and the people of his county desired, yet, on great occasions, he gave his time and talents to the state. In 1779, he became a member of the convention which formed the frame of state government for Massa chusetts; and, when the constitution of the U. States was presented to the people for their approbation, and a convention of delegates from the several towns of Mass sachusetts was assembled to discuss its merits, and adopt or reject it, Parsons appeared in this assembly, the powerful and zealous advocate of the proposed plan. He was eminently distinguished on this occasion, even among such men as Anges, King, Dana and Strong. This finished his political engagements, except some few years in the legislature at subsequent periods, when his influence was visible: but the subjects in which it was exercised were only of ordinary import. In his private character, he was just, regular, punetual and hospitable without ostenta tion. Amid the multifarious occupations of his mind, he still found room for the lighter literature, and was ready with his criticism even upon the ephemeral works of fancy and taste. His attainments in classical literature were great. The late Mr. John Luzac, professor of Greek in the university of Leyden, spoke of him as a "gant in Greek criticism," as his profes sional admirers styled him "the giant of the law." He loved, and occasionally cultivated, the mathematical sciences. Doctor Bowditch, in his Practical Navigator, speaking, on the subject of lunar observations, of a method of correcting the apparent distance of the moon from the sun. observes that it is an improvement on Witchelf's method, in consequence of a suggestion from judge Parsons. When fatigued with the labor of legal research, he would often amuse himself, as he called it, with mathematical calculations, or relax his mind by the perusal of some popular and interesting novel. He lived to the ago of sixty-three years—a long life for such a man, whose mind had been so active, and whose body had seldom been in exercise. He made a public profession of his belief in the Christian revelation; his was the belief of a strong mind, unobscured by superstition, and undisturbed by the apprehensions of death. He died at Boston, Oct. 30, 1813.

PARTHENON. (See Albens.)

Parthenore. (See Naples.)

PARTHIA. By Parthia, in the widest sense, we understand the Parthian empire, lying between the Euphrates, the Oxus, the Caspian and Arabian seas. In the narrowest sense, Parthia (Parthucae) is the small country formerly inhabited by the Parthians, bounded by Hyreania, Aria, Carmania and Media, and encircled by mountains. It was situated in the northwestern part of the modern Chorasan, where Kurn and Thus now lie. In a aniddle sense, Parthia included the northern provinces of Persia, Hyreania Felix (now Masenderan, Jerjan and Corean), the small Parthyone itself, celebrated for its breed of horses, Aria (a part of Cherasau), Margiana (now Torg and Marushak in East Chorasan), Bacterana (or the southern part of Bucharia), the regions about the Paropamisus (the district around Candahar), Drangiana (Segislan), Arachosia and Sogdiana (the northern division of Great Bucharia). The Parthians (figitives) were known in the earliest times as a nation of barbarians. They were of Scythian ori-Polygamy was common among gin. They fought only on horseback, were celebrated for their skill in archery, and were particularly formidable in flight. They were subject successively to the Persians, Macedomans and Syrians. Under the latter they remained till the time of Antiochus H. At that period, Arsaces (Aschak) took up arms, expelled the Syrtans, and extended his conquests over the neighboring countries. His successors "continued his career of victory, was the origin of the Parthau empire, governed by the Arsacidae (Ascheanians or Aschakians\, from B. C. 156. Ctesiphon, the capital, on the castern bank of the Tigris, was built by Vardamus. They carried on war with the Romans with various fortune, but the Romans never gained any permanent advantage over them. Crassus was slain in a battle against them, B. C. 53, in which he was deteated with great loss. Trajan, indeed, conquered a part of Parthia; but this conquest was lost partly by himself and partly by Adrian. In the year A. D. 214, Artaxerves, a Persian, son of Sassan, excited a rebellion, drove the Arsacida from the throne, and, in 229, subjected all Central Asia, and founded the line of the Sassanides. (See Persia.\

PARTICIPLE; that part of a verb which has the nature of the adjective, with this addition,—that it expresses also the relations of time, the present, past, &c. This double nature gave the participle its name,

participating as it does of the characters of two parts of speech. Many languages have active and passive participles, past, present and future. The beauty of a language, its force and expressiveness, depend greatly upon the perfection of its participles. The modern European languages are very deficient in this respect, compared with the two classical languages.

Parericles (particulæ); such parts of speech as are incapable of any inflection, as for instance, the preposition, conjunction, &c. These words are generally short, consisting mostly of original sounds, and the name particles has been given to them from this circumstance; but, as the external dimension of a word is a very implale-sophical and insufficient ground of classification, many grammarians have dropped this name, and divided all parts of speech into declinable and indeclinable.

Pyuruas, ass. (See Alphonso X. and

Louisiana, Code of.)

Pyrevive; the state of being driven from the anchors by breaking the cables through the violence of the wind, waves, &c.

Parterior is a dividing of buds descended by the common law, or custom, among coherrs or parceners, where there , are two at the least,

PARTNERSHIP. A partnership is an, agreement between two or more to share in the profit and loss of the use and application of their capital, labor and skill, in some lawful business, whether one supplies capital, and another skill and labor, or each contributes Loth labor and capital. The benefits of a union of the means and advantages of different persons for the conduct of a branch of business, in many instances, are too obvious and common to need illustration. A partnership is not constituted merely by an interest of different parties in the same thing, but it depends on a participation of profits and joint liability to loss. And yet there are some exceptions to this rule, for it has been held that seamen shipping on shares in a fishing voyage are not copartners with the owners. And so, where a certain share or commission is allowed to a clerk, or agent, depending on the success of the business or amount of profits, in addition to his other compensation, it has been held, in many cases, not to make him a copartner. It is difficult to point out the criterion by which cases of this description are distinguished from those of copartnership; and some of them look more like an exception of cases which strictly

course within the definition of copartner-A question has been made whether joint owners of a ship are copartners, and the general doctrine is that they are not so; and yet it is generally held that each one is liable for the whole amount of repairs and expenditures in the navigation of the ship; but still the ownership is not joint, for, in case of the decease of one. the property in the whole ship does not survive to the others, as would be the case if it were partnership property, but the property is held in commen, each part owner having a distinct title to his share; and one part owner cannot, merely as such, convey a tale to the whole ship, or to any share except his own. As to the share of each partner in the profits, or his hability for losses, if there is no agreement on this subject, all the partners stand upon an equal footing. As to the objects of coparmerships, they are not confined to commerce, though most frequent in that branch of industry, but may embrace manufacturing, the carrying on of any me banic art, agriculture, the practice of law, or of medicine, and, in short, almost every lawful branch of business. Copartnership is more usually formed by a written agreement; and by some codes, and in regard to certain copartnerships. formal stipulations are required by Texm order to constitute a e-queragership. This is not a general rule, however, for, in many branches of business, parties may agree orally on a participation in profit and loss. These associations are divided into different classes, distinguished by their objects, and the extent of the lability of each partn r. The Roman way allowed of general copartnerships, extending the community of property and joint profit and loss not only to the business pursued, but also to all acquisitions by either party, whether by legacy, inheritance, gift, or as the fruits of industry. By that law, and so by the laws of France, Spain, Louisiana, and other codes derived from the Roman law, a man and his wife may be copartners; and, in making the marriage contract, the kind and extent of copartnership is agreed upon, the form of the stipulation for this purpose being particularly pointed out by the French code. It was between the parties to the marriage contract that the general copartnerships above mentioned were most frequently formed. In this respect, however, the Roman law, and those codes derived principally from it, leave the parties at liberty to agree upon a universal copartnership or a limited one, or a separate property. Copartnerships

are usually confined to the prosecution of a particular branch of business, and it very often happens that each copartner is concerned in other branches. The term general copartnership is also applied to one formed for trade generally, or business generally, without limitations; but where the joint interest extends only to a partieular concern, as, for instance, the freighting of a ship, it is called a special copartnership. And so a partnership is called special when the parties enterinto stinulations modifying and restraining the powers and rights of the members, instead of leaving them to the operation of the laws generally applicable to such associations: and this is the usual meaning of succial copartnerships. Another description is that of limited copartnerships, in which one or more partners put in a certain arount of capital, which is hable for the contracts of the firm; but beyond this the party or parties are not liable. This sort of partner-hip is particularly provided for in the French code, and is not unfrequent in France. It is a very useful provision of the law that allows of such associations, for it enables persons of fortune, and refired from business, to put a part of their capital at risk in trade, without risking their whole property; and it accordingly operates very favorably upon the enterprise of the community; for a young man who has only los talents and industry to put into a concern, can thus more easily obtain the capital necessary to give his activity and enterprise scope, and every comminute ought to open all practicable clans nels for the intellectual and physical exertions of its members. This species of copartnership has accordingly been partially introduced into the U. States, being provided for in the code of Louisiana, which is modelled on the French code, and having been introduced also into the laws of New York by a statute the provisions of which were closely copied from the French code the first instance (as chan cellor Kent remarks in his Commenta ries) in which any other foreign law than the English had been adopted in the particular structure and provisions of au American statute, in those states of whose codes the English law is the basis. The condition of such a limited copartnership is, that the name of the person whose liability is thus limited must be used in the firm, and particular provisions are made as to paying in the amount of capital supulated; and another suitable provision in such case is the provision for some registry by which it may appear to those who

wish to make the inquiry what amount such partner pays in. Some partnerships are secret; that is, some one agrees, upon certain terms, to share profits with the ostensible partners, without any notice to the public of his being a member of the firm. Each partner has a joint interest in the whole personal property, and, unless the anteles stipulate otherwise, may transfer ir. Each partner may also bind the whole firm by his contract made in the course of the business of the firm, unless it be otherwise agreed between them. even when it is otherwise agreed, still, if a party with whom a partner contracts has a legal right, from the manner in which the joint affairs are managed, to presume that a partner is authorized to contract for and bind his copartners in regard to the subject of any contract, the firm will be bound by such contract. But if the party contracted with has notice that, by the articles of copartnership, a partner has not authority to make a contract, the company will not be bound by it. So if a partner contracts, in the partnership name, in a matter which the party contracted with knows is not within the business of the firm, --as if he makes a negotiable note in the name of the firm for his own separate debt,-- the contract will not bind the firm to the party thus contracted with; but still, it this contract, being transferable in its nature, and holding out on the face of it the responsibility of the whole firm, is negotiated to those who have no notice that the paper was made for the private accommodation of the partner who signed the partnership name, the company will be bound in respect to such assignce; that is, the firm having given notice to the world that they are copartners in a certain branch of business, every one has a right to presume that all acts done by each of them in regard to it are authorized by theterms of their contract, or the circumstances of the case, unless he has notice to the contrary. But certain acts are not authorized by the general powers of copartners, and those no one partner can be presumed to have power to do; as, for instance, one partner is not, merely as such, authorized to make a deed in the name of the other, or to act as his attorney; and he cannot, accordingly, convey land belonging to the members of the company; for, though it may have been acquired and paid for with the property of the firm, yet when acquired it belongs to the members in common, if the title be in them all, and weach member can himself convey only his share; and in order to the conveyance of

that of another, he must be specially earpowered. But a partner may release a debt due to the firm, if it be done fairly, and without collusion between him and the debtor. It has been held, however, that one partner cannot by deed submit a question to arbitration. A partnership may be dissolved by its own limitation, the death, bankruptey or insanity of a member, or by the breaking out of a war lestween the countries to which the menbers belong. A question is also made whether a member may dissolve the copartnership voluntarily before the time for which it was formed expires; and the opinion seems to be that he may do so by giving sufficient notice to this effect; and this seems to be necessarily incident to new associations. For though he would, in such case, be answerable to his copert ners for the breach of his agreement, we it would be exceedingly inconvenient if a partner were irrevocably bound to give his copartners the right of his creat, a. I. of disposing of his property after all lasconfidence in them had ceased. In case of mismanagement by any partner baying the charge of the partnership effects, or that the other partners are liable to be reasterially injured, they may make a chiex tions to a court of chancery to appear a receiver to take charge of the constrained the company, and wind up its affairs, on ease the partnership has already been dissolved, or in case there appears to be safficient reason to dissolve it. But where there is no ground for such application to a court of chancery, and the company is dissolved by the death of one pertuer, the joint property will survive to the other partner, who may dispose of it, and collect and pay the debts of the concern, and will be liable to account to the personal representatives of the deceased partner for his proportion of the surplas property. In case of the decease of a partner, las personal representatives do not become copartners with the surviving partners, but the affairs of the concern must be settled with reference to the time of the death of the deceased partner.

Partriogr. (See Appendix.)

Pasa, or Frest (anciently *Posargada*); a town in Persia, in Farsistan; 68 miles south-east of Schiras, 235 south-south-east of Ispahan; lon. 53° 10° E.; lat. 29° 10° N. This was formerly the burial-place of the Persian monarchs, and a royal city.

Pascagoena; a river of Mississippi, which runs south into the gulf of Mexico, 38 miles west of Mobile bay; lon, 88° 30' W. It is navigable for vesse's drawing six feet of water about 50 miles. Length about 300 miles.

PASCAL, Blaise, born at Clermont, in Auvergne, in 4623, was the only son of the president of the cour des aides, who educated him with great care, and in-structed him himself. In early youth, he gave proofs of extraordinary talents, and showed a decided inclination for geometry. His bours of relaxation were employed in the study of mathematics. His father surprised him engaged in studying Euclid, which he understood without any assistance; and, in his sixteenth year, the young Pascal wrote a treatise on come sections. displaying great acuteness, but which, notwithstanding the entreaties of his friends, he would not consent to publish. His studies in the languages, logic, physics and philosophy, were pursued with such assiduity, that his health was irrecoverably gone in his eighteenth year. In the course of the next year, he invented the celebrated calculating machine, the mechanism of which it cost him much pains to tender intelligible to the workmen, at a time when he was hardly free from suffering for a day. In his twenty-third year, he made several discoveries concerning the Torricellian vacuum. Before he was twenty-four years old, the reading of some religious works had brought bim to the conviction that a Christian must love God only: he therefore laid aside all profane studies, and became more and more deeply rooted in his ascetic notions, which, however, had been fanoliar to his childhood. Pascal's picty produced a great effect on his whole family. His father became his pupil, and his sister a non in the Pert Royal. Pascal, although constantly sick, continued to practise his penances with additional rigor. By the direction of his physician, he went into society; but his sister soon induced him to renounce all intereburse with the world, and to give up all superfluities, even at the expense of his health. In this manner he lived from his thirtieth year till his death. After spending some time in a monastery, he retired to an estate in the country, denied himself every adulgence, made his own bed, ate in the kitchen, and allowed himself to be served only when it was indispensably necessary. He spent his time in prayer, and in reading the Scriptures (which he thus learned by heart), and commentaries on them. His disease, meanwhile, became aggravated, and he died in 1062, at the age of thirtynine. Pascal had a powerful mind. He had conceived a work on the Christian

religion, the object of which was to show its excellence, from a consideration of lea man nature as well as on historica. grounds. The fragments, which were written down during the last four years of his life, and published under the title of Pensies sur la Religion (Austerdam, 1667), show the hand of a master. His Provinciales, on Lettres errites par Louis de Montalte a un Procincial de ses chais, is a most bitter satire upon the lox morality of the Jesuits, whose anthrence was more affected by it than by the most violent attacks of their declared enemies. These letters are esteemed a model of the didactic epistolary style in Urench literature. Pascal's (Encre, appeared at the Hague, in 1779, in 5 vols. Rannonal's Eloge de Pascal (1846) comains un necount of his life.

Prserragea. (See Piscataqua.)

Pystocyeny (from soci, universal, y ogo writing a A universal written or spoker. language, that is, a language easily under stood by all nations, has never yet been formed. Ledwitz seems to have fast conceived the idea; at least, he labored a good deal in attempting to execute it. He was followed by Wilkins in Frightid. (1668), and in Germany by Berger, Planof a Indversal Written and Spoken Language (in German, Berlin, 1779); Wolke, Means of rendering a Universal Larguage practicable (in German, 1797); Si card, the celebrated instructor of the deaf and dromb (in 1798); Nother (in 1865); Braya, Pasitalie (1808), J. M. Schmidt, of Dillinger, Attempts at Pasigraphy (in German, Vacana, 1815); and Stithy, Langua aniversalis (Vienna, 1825). The academy of sciences at Copenhagen, as 1811, offered a prize for the best plan of such a language, and its accomplishment. "The idea of a universal language," says Wagner, in his Philosophy of Education, his founded upon the fact, that the essence of every language consists in its internal organization, for which a common expression must be possible, since this internal organization of a language can be only the expression of the various refations of ideas, and these relations, againonly the expression of the real relations of things. If, now, a general representation can be found for these relations, a universal grammar is obtained; and, it this can be communicated in common characters, intelligible by every one, we have a complete pasigraphy," -- See Vator's Pasigraphy and Anti Pasigraphy in German, Weissenfels, 1795; Niethammer, Urber Pasigraphie und Ideographie (Nuremberg, 1808); and Riem, On a Written Language and Pasigraphy (in German, 1809). A universal spoken language (pasilaly) is also a desideratum. (See

Language.)

Pasiphaë; daughter of Sol and Perseis, and wife of Minos, king of Crete, to whom she bore Deucalion, Chaucus, Ariadne and Phædra. Blinded by Neptune, who wished to punish Minos for not having sacrificed a bull to him, or, according to others, by Venus, who had sworn vengeance against the whole family of Sol because he had betrayed her intrigue with Mars, she was inflanted with an unnatural love for the bull. Her desires were gratified by means of the wooden animal made by the ingenious Dædalus, and the Minotaur (a, y.) was the fruit.

taur (q. v.) was the fruit. PASQUIER, Etienne Dénis, count, one of the ablest of the French ministers since the time of the restoration, was born in April, 1767, like his ancestors, embraced the profession of the law, and, previous to the revolution, was a counsellor of the parliament of Paris. He seems to have lived in retirement during the republic; but Napoleon appointed him master of requests in 1810, baron, and officer of the legion of honor, and, in the same year, prefeet of police. After March, 1814, the king named him minister of state and directorgeneral of roads and bridges. He remained without employment during the hundred days, but, on the second return of the king, was appointed minister of justice, keeper of the seals, grand-cordon of the legion of honor, and privy-counsellor. He was elected member of the chamber of deputies; reported the project of the law against seditious language; voted, in 1816, for the law of anmesty, and distinguished himself as the zealous defender of the ministry. He was chosen president of the deputies, and held the office till January, 1817, when he was again appointed keeper of the seals, and remained in the office till December, 1818. When Decazes was made president of the council, Pasquier was appointed minister for foreign affairs, and, in the session of 1819, he brought forward and defended the new electoral system and the other laws intended to narrow the liberty of the French. Notwithstanding his services on this occa-between the court party and the advocates of liberty, M. Pasquier had, when the ultraor alist administration was formed, towards the latter end of 1821, ceased to be a minaster, but was created count, and raised to a seat in the house of peers.

(See France.) From as time count Pasquier ranged himself on the constitutional side, and defended the rights secured by the charter with a zeal and eloquence worthy of a better success. Since the revolution he has been created chancellor of France, by virtue of which office he presides in the chamber of peers.

Pasquin : derived from Pasquino.

(q. v.)

Pasquino, Pasquinade, Pasquino was a cobbler, who lived, above 300 years ago, in Rome, and was so much celebrated for his caustic satire and wit that his shop was much visited by persons desirous to hear him. Soon after his death, a beautiful but mutilated statue (according to some, that of Menclaus) was dug up not far from Pasquino's shop, and put up in a corner of the Ursini palace. The people manimously called the statue Pasquino, and sotirical placards were attached to it -- put, as it were, into the mouth of the revived Pasquino. Another statue, called Marfo rio (q. v.), supposed to be a corruption of Martis forum, stood opposite Pasquine; and questions were generally attached during the night to Marforio, which were answered by Pasquino. For instance, pope Sixtus V had taxed several articles of food, and on Sunday Pasquino appeared with a wet shirt, as if to dry it in the san. forio inquired why he did not wait till the next day to dry his shirt; to which Pasquino replied, "I am afraid to lose any time, for to-morrow I may have to pay a tax for sunshine." These two statues now lie in the court of the capitol. The Italian words *pasquinata* and *pasquillo* have been adopted in several other languages, and in some, as French and German, are even used in legal language for libel.

Pass, or Passane, in fencing; an advance or leap forward upon an enemy Of these there are several kinds, as passes within, above, beneath, to the right, the left, and passes under the line, &c.

Passage, Birds of. (Sec. Migration,

and Ornithology.)

Passaic Falls. (See Cataract.)

PASSAMAQUODDY; a bay which forms a part of the boundary between Maine and New Brunswick. It is about twelve miles from east to west, and six from north to south. It contains a number of islands, of which the principal are Campo Bello, Deer, Moose, Dudley and Frederick. The Passamaquoddy or St. Croix river flows into this bay. (See Crox, St.)

Passant, in heraldry; a term applied to a lion, or other animal, in a shield, ap-

pearing to walk leisurely.

Passarowitz, Peace of ; concluded July 21, 1718, by Venice and the emperor Charles VI with the Porte, at Passarowitz, a small town in Servia, at the confluence of the Morawa and the Danube, under the mediation of England and Holland. terminated the war begun in 1714 by the Porte for the conquest of the Morea, in which the Turks succeeded in 1715. The emperor, as guarantee of the peace of Carlowitz (q. v.), took up arms for Venice Eugene (q. v.) was victorious at Peterwardein, August 15, 1716, and at Belgrade, August 16, 1717; after which the Porte determined to conclude a peace on the principle of uti possibilis, by which it retained the Morea, without a formal cession from Venice. Austria received Belgrade, with Servia, the bannat of Temeswar, Walachia to the Alute, and part of Croatia. (See Belgrade.)

Passau; capital of the Bayarian circle of the Lower Danube, in a romantic situation on the Danube and the Inn; population, 9000; lat. 48' 55' N.; lon. 21' 29' E. It has two suburbs--Innstadt and Hzstadt and several bridges. On a hill 400 feet high is the fortress Oberhaus, which is connected with the castle Niederhaus lying below it. It has some manufactures and considerable commerce. The principal public buildings are the cathedral (the oid residence of the prince bishops) and the Jesuits' college. Passar is celebrated in history for the treaty concluded here August 22, 1552, by which the Protestants obtained the free exercise of their religion and the acknowledgment of their political (See Reformation, and Charles rights.

Passion Flower (passiflora); a beautitul genus of climbing plants, containing numerous species, most of which inhabit the intertropical parts of America, and are remarkable for the elegance and singular form of their flowers. Their stems are woody, or, more frequently, herbaceous, provided with tendrils, and bearing alternate simple or lobed leaves; the flowers are axillary, and supported on peduncles; the calyx is widely-spreading, and divided into ten parts, the five interior of which have the form of petals, or are sometimes wanting. To the base of the calyx is attached an interior crown, composed of a great number of filaments. There are five stamens, which have their filaments united at base around the style. The fruit is a large one-celled berry, often, indeed, approaching a goord in size, containing numerous seeds, and in many species is edible, though not rich in flavor. .The

water-lemon of the West Indies (P. laurifolia) bears fruit as large as a hen's eggcontaining a whitish watery pulp, whiel, has a peculiar aromatic, delicately acid flavor, and allays thirst agreeably.-The sweet calabash of the same countries (P. muliformis) has the finit of the size of an apple, enclosing a sweetsh pulp. It is often called granadilla, together with several other species, and is served up in des-The sirup and decoction of the flowers of the P. maruenja, also a native of the West Indies, are much used as a narcotic, and afford a good substitute for opium. Two species of passiflora inhabit the southern pairs of the L. States, as far as the thirty-minth parallel of latinude. and a third has been discovered in Flor

Passion of Circier; the crucifixion of Jesus, with all its attendant sufferings. R is celebrated in the Catholic and most Protestant churches on the European continent during Lent (q. v.) (the seven weeks preceding Laster), and particularly during the Passion-week (the week preceding Easter), by sermons relating to the sufferings of the Savior. The Catholies fast during Lent. The churches, and especially the altars, are deprived of their ornaments; the bells are not rung; public amusements are discontinued. The season of Lent is preceded, in most countries, by the carnival. In Rome, the cele bration of the Passion-week in the Capella Sisting is famous on account of the incomparable music in the papal chapel There the compositions of Palestrini, Per golese. Allegri, and others, are heard in the purest style. The Officium Hebdomada Sancta jucta Formam Missalis et Breviarii Romani sub Urbano VIII contains the rites of worship in the Passion-week prescribed by the Catholic church. The passion of Christ formed the subject of the first theatrical representations, which were prepared by the clergy, and thus, strange as it may seem, became the origin of the modern theatre. (See Comedy, Mysteries, Drama, and Theatre.)

Passion-Week. (See Passion of Christ.)

Passive and Active Trade. By active trade, writers of the European continent understand that which a nation carries on in foreign marts, whither it transports articles of commerce, and receives the returns: by passive commerce, that which it carries on with foreigners who come to its marts to sell and to buy. Some attach to active commerce the further idea of an advantageous balance of

trade. (See Mercantile System.) It is an erroneous notion, which has led several governments to injurious laws, that the active commerce is plways better than the

passive.

Passover (Hebrew, passa, a sparing, a passing over); the Jewish feast, in coinmemoration of the sparing of the Israel-ites, when the first-born of the Egyptians perished, and of their escape out of Egypt, It was celebrated on the first full moon of the spring, from the 14th to the 21st of the month Nizan. (See Easter.) To this festival, as long as the Israelites remained in possession of Palestine, they assembled originally at the tabernacle, and, from Solomon's time, at the temple. During the eight days of the feast, they were permitted to eat only unleavened bread, because their hasty departure from Egypt had obliged them to take their dough with them before it was leavened; hence the passover was also called the "feast of unleavened bread." Every householder, with his family, ate, on the first evening, a lamb killed by the priest, which was served up without breaking the bones. Thanksgiving, and the relation of incidents from the history of the Exodus, gave this festival its religious character. Offerings of firstlings of the flocks and herds, and first fruits, were also presented in the temple. The passover was the principal Jewish festival, and is still observed by the Jews, by eating unleavened bread and by public prayers.

PASS Pyrole; a command given, which passes from mouth to mouth along the

line of a regiment of army.

Passpore; an instrument given to travellers by the proper authorities, describing their persons, purposes and destinations, intended to show that their characters are good, and their objects in travelling lawful. Passport also signifies a license for importing contraband goods, or for exporting and importing merchandise free of duties. These last are always given to ambassadors, and other public ministers, for their baggage, equipage, &c.

Passway Oglui. (Sec Widdin.)
Passy; a village not quite a league from the centre of Paris. Its vicinity to the capital, the Bois de Boulogne, and the river, renders it peculiarly interesting. It is likewise esteemed for its mineral waters, the salubrity of its air, and its charming views in every direction. It is much visited by the Parisians, in summer, for the promenade, the fêle champètre at Ranelagh, &c. Franklin resided here while in France.

PASTA, madame, is said to have been born in Milan, in 1799. She made her first appearance on the English stage in 1817, and, though so young, and exposed to very trying comparisons, made a most favorable impression, which her superior talents, cultivated with the greatest zeal and judgment, have ever since continued to confirm and strengthen. She soon returned to Milan, where she spent four years in attending the lectures and exhibitions of the most distinguished performers, without placing herself under the control of any particular instructor; hence, while others are generally characterized by the prevailing style of the school in which they have studied, Pasta seems to have acquired the excellences of almost every school, and to have skilfully grafted them on the stock of her natural talents. She appeared anew in Paris in 1892; but she soon received proposals from the Italian opera in London, and, in 1824, again appeared before an English audience. The science and skill which she displayed in one of the most arduous characters in the operatic range of the drama at once placed her by the side of the first heroines of op-After remaining several years in London, she again visited the continent, and, in the beginning of 1831, was performing at Milan. Madame Pasta has been called the most scientific and philo. sophic of modern singers, and is, at the same time, distinguished for her sweet simplicity and pure plainness. She introduces ornaments sparingly, but always with effect; and her invention and taste are equally manifest in admitting and rejecting them. She is said to want the brilliancy of Catalani, the finish of Col-bran, the silvery beauty of Fodor's tones. the delicacy and distinctness of expression of Camporese, but to surpass all of her rivals in the general superiority of her entire performance. But perhaps the acting of madame Pasta is even superior to her singing. Without any great personal advantages, with rather a stout and awkward figure, and, in general, few personal charms, she is, as an actress, at once simple, terrible and sublime. Her features are capable of great expression; and her attitudes, tones, sounds, expressions and movements all possess an admirable correspondence. In comic opera, she shines as a genius and a wit, and always givefull effect to the most lively part; but it is in tragedy that the powers of this extraordinary woman most fully appear: the love and scorn of Medea, the jealous rage and agony of Othello, the majestic dignity and remorse of Semiranis, the tenderness and despair of Dido, the passion and pathos of Romeo,—are all depicted in a high, pure, and most touchingly natural style, combining a rare majesty and grace with an equally uncommon energy and depth of feeling.

Paste; a glass made in imitation of gems. The base of all artificial stones is a compound of silex, potash, borax, red oxide of lead, and sometimes arsenic. Pure boracic acid and colorless quartz should be used. Hessian crucibles are better than those of porcelain. The fusion should be continued in a potter's furnace for twenty-four hours. The more tranquil and continued it is, the denser the paste, and the greater its beauty.

Pastes.	i.		2.	3.	1.
Rock crystal,	4056	grs.		3156	3600
Minimo,	(300)	`		2355	
Potash,	2154	•4	1500	1941	1260
Borax,	276	*	:}(;()	216	360
Arsenic,	13	60	1.5	6	
Ceruse of clichy,			8508		8508
Sand,			3600		
Topaz.		.Vo. 1.		.Vo. 2.	
Very white paste,			1008	3456	
Glass of antimony,			43		
Cassius's purple,			1		
Peroxide of iron.					:36

Ruby: paste, 2880, oxide of manganese, 72.—Finerald; paste, 4608, green oxide of copper, 42, oxide of chrome, 2.—Supphire: paste, 4608, oxide of cobalt, 68, fused for 30 hours.—Amelhyst: paste, 4608, oxide of manganese, 36, oxide of cobalt, 24, purple of cassius, 1.—Bergl: paste, 3456, glass of antimony, 24, oxide of cobalt, 14.—Styriân garnet: paste, 502, glass of antimony, 256, cassius's purple, 2, and oxide of manganese, 2.—In all these mixtures, the substances are blended by sifting, fused very carefully, and cooled very slowly, being left on the fire from 24 to 30 hours.

Pastel, or Pastel; a kind of paste composed of several colors, and ground up with gum-water, either together or separately, in order to make crayons to paint with on paper or parchinent. (See Crayon, and Drawing.) This kind of painting possesses some advantages over closures of Virgil, the idyls of Madame Deshoulieres, and, in a measure, Pope's Messiah. The principal writer of idyls

PASTORAL, or IDYL (circhlor, a little image or picture, thence a little poem), is the general name of those poems which represent men in the simplicity and innocence in which they are thought to have lived before the origin of civic relations,

and the vices thence resulting. When we look back in imagination to an original state of man, we naturally refer it to a shepherd's life, since feeding flocks and tilling the ground were the first occupations of man, and are older than civil so ciety. As the first strains of poetry must have been heard in the primitive times of the human race, and as a shepherd's life is congenial with this mode of occupation, we naturally consider poetry as having originated in the pastoral period. The wonders of nature which lay every moment before the shepherd's eyes, must have kindled in his breast poetic fire. The proper idyl, however, as a peculiar style of poetry, had its origin in a corrupt state of society, on account of the desire of men for a better and more natural state of life. The poetic idea of pastoral life. however, is not supported by experience; for the shepherds of the present day are rude and barbarous, whether living in tribes, or forming a class in the midst of men of other occupations. There have been both epic and dramatic idyls. To the epic belong the pastoral romances of ancient and modern poets; also the Lause of Voss, and the Hermann and Dorothea of Göthe, &c., and, in a more limited sense, the greater part of the idyls of Theocritus, and his inditators. Virgil and Calpurnius. Among the dramatic are Guaring's Pastor Fido, Gessner's Ecander, and several other pieces of the moderns, to which may be added the salyrica of the Greeks. The greater part of the bucolies and eclogues of the ancients and modernare lyric. The idyl must show a world in which nature alone gives laws. Restrained by no civil customs, by no arbitrary rules of politeness, men must there give themselves up to the impressions of nature. They know no wants but those which nature imposes, and no blessings but the gifts which she bestows. Their principal passion is love, but love without restraint, without dissimulation, without Platonic sublimity. Their arts are bodily exercises, singing and dancing; their riches fruitful flocks; their utensils a shepherd's crook, a flute and a cup. There are also allegoric idyls, among which are the first and tenth Deshoulières, and, in a measure, Pope's The principal writer of idyls Messiah. among the ancients was Theoritus, who has likewise represented the most simple relations of city life. He was followed by Bion and Moschus. Pope has imitated Virgil in four pastorals; and Gessner was regarded by some former critics as a

model for pastoral poets. His fame, however, has diminished.

PASTORAGE, in music; a rural composition, of an idyllic character; also a composition for a dance in this character, gen-

erally in § time. PASTORALE (collegium pastorale) is used to designate that part of theology which includes the execution of the duties of the elergyman, the application of his theological knowledge—the practical part of theology. It is also called pastoral theology, pastoral science, pastoral wisdom, or pastoral prudence. But the latter, the prudentia pastoralis, more frequently includes only certain rules of prudence which experience has shown to be important for the execution of clerical duties. According to the widest meaning of the pastorale, it is to be divided into as many heads as there are branches of the official duties of a divine. In respect to his office as teacher, it comprises, therefore, 1. pulpit eloquence; 2. catechesis (q. v.); 3. liturgies, in its widest sense, the administration of the sacraments, the service at the altar and before the congregation; 4. every thing which is necessary for a elergyman to know as the adviser, comforter and leader of his flock, the duties of the confessional, the consolation of the sick and sorrowful, the preparation of the sick and the condemned criminal for death, and every thing which is requisite for the maintenance of church discipline, so that, with Catholics, the chief part of the canon law is comprised in it. Catholics call, also, the official collection of all the ceremonies attached to the administration of the sacraments, and the other public duties of the clergyman, the pastorale. pretty much the same as that which is better known under the name of Rituale

PASTORAL THEOLOGY. (See Pastorale.)
PASTORAL, Claude Emanuel Joseph
Pierre, marquis, born at Mascilles, in 1756, was, for a short time (in 1790), minister of the interior to Louis XVI. Pastoret adopted the principles of the revolution, but in a spirit of moderation, and opposed the encroachments on the royal proposed the encroachments on the deography of the southern Extremity of London in May, 1831, and published in their Journal for 1831.) The Andes, in their Journal for 1831.) The Andes, in their Journal for 1831.) The Andes, in their Journal for 1831.)

Romanum, except that this has received

the papal revision and confirmation.

Thus the pastorale of the Roman Catholic

is a written code, while that of the Prot-

estant minister consists of principles ad-

dressed merely to his understanding.

returned in 1795, and became the president of the council of the five hundred. His firm opposition to the usurpations of the directory compelled him again to flee, on the triumph of their measures, and he retired to Switzerland. He was recalled by Napoleon, and became professor of the law of nature and nations, and afterwards senator. In 1814, he voted for the deposition of Napoleon. After the restoration, Louis created him peer of France, and commander of the legion of honor. was for some time vice-president of the chamber of peers; and, at the breaking out of the revolution of July, 1830, he was chancellor of France, who is, ex officio, president of the chamber. Pasquier succeeded bim in the chancellorship. Among his numerous works on politics, history and literature, we shall only mention his Histoire de la Législation, and his continuation of the Benedictine Histoire littéraire de la France.

Paragonia; a vast country, occupying the southern extremity of South America, and extending from lat, 35° 38' S., where it borders on the province of Buenos Ayres and Chile, to cape Froward, on the straits of Magellan, in lat. 53° 54' S., a distance of about 1400 miles. Little is known of this extensive region, which has not been colonized by any European nation, and has never been thoroughly explored by travellers. It was discovered by Magellan in 1519, and was visited by Byron in 1764, and by Wallis in 1766. In 1782, the coasts were surveyed by the Spaniards, whose chief attention was, however, directed to the examination of the straits of Magellan: previous to that time, it was uncertain whether there was not a navigable channel farther north than those In 1826-1830, captain King examined the coasts of Patagonia and Tierra del Fuego, and corrected the errors made by the Spaniards in their survey. The western coast he found to be bordered by . a range of islands, in the rear of that usually laid down on the maps, and equal to it in breadth. Tierra del Fuego (q. v.) was also found to be intersected by a navigable channel, which captain King called London in May, 1831, and published in their Journal for 1831.) The Andes, in this part of the continent, are about 3000 feet high on an average, and the deep inlets which form the numerous archipelagos and peninsulas of the western coast,

penetrate quite to their base. The climate. as might be expected, from the high latitude of the country, is rigorous; yet the plants and birds of the warmer regions are found here. The natives bear among themselves the names of Moluches, or Warriors, and Puelches, or Easterns. One of the tribes of the former, from their inhabiting Arauco, has received from the Spaniards the name Araucanos. (See . Iraucanians, and Ercilla.) One tribe of the Puckches is the people known to voyagers under the name of Patagonians. They are a nomad people, and wander from the straits of Magellan to the pampas (q. v.) of Buenos Ayres, a distance of about 1000 miles. They are often engaged in hostilities with the Spaniards, and are formidable by their courage and numbers. "They are a large-bodied people," says Valkner, who resided in the country forty years, and wrote the best account which we have of the interior (Description of Patagonia, 1771), "but I never heard of that gigantic race which others have mentioned, though I have seen persons of all the tribes of southern Indians." -- From Chile to the Magetlanic strait, a great part of the country seems to be bleak, mounainous and barren. The interior, in many places, produces good timber. Much of the country near the western coast is dry and barren, and uninhabited. Deer, guanacos, wild horses, pumas, jaguars, ostriches, and other animals, are found in Patagonia. (See South America.)

PATAM, or PATAM; the ending of several Hindoo names for places, signifying town; for example, Seringapatam (city of Vishnoo, or Srinanga).

Parvisco: a river of Maryland, which runs south-east into Chesapeake bay, be tween North point and Bodkin's point. It is navigable to Felf's point, in Baltimore, fourteen miles, for ships drawing eighteen feet of water.

PATENT, in law, is the exclusive right of using and vending a certain composition or combination of matter, as a medicine or a machine. This right is not derived from the law of nature, as the whole field of inventions and improvements is open to all men, and one cannot monopolize a part of it by prior discov-In Miller versus Taylor, 4 Bureries. row's Reports, 2387, Mr. justice Yates says that the mere labor and study of the inventor will establish no property in the invention, and no right to exclude others from making the same instrument, and that it is well known that no such property can exist after the invention is publish-

ed. By the common law of England. monopolies were declared to be generally void, and patents for new inventions, being a species of monopolics, would, according to this doctrine, be void by that law. But they seem to form an exception to this rule; for it was held that the king could confer on the inventor of any useful manufacture or art the power of using it for a reasonable time. But the law of patents, as it now stands in England, rests upon a statute of 21 Jac. 1, c. iii, and in the U. States on statute Feb. 21, 1793, and April 17, 1800. In France, until 1790. inventors were generally obliged to keep their discoveries secret, in order to secure to themselves a small part of the benefit. of them. In an early period of the French revolution, a law was passed in favor of new inventions, formed on the basis of the English statute. The French law of Jan. 7, 1810, declares that every discovery or new invention, in every species of use-tal industry, is the property of its author. -By what Authority granted. In the U. States, by the constitution, congress is authorized to promote the progress of the useful arts, by securing, for limited times, to investors the exclusive right to heir discoveries. Letters putent are made out by the secretary of state in the name of the U. States, bearing tests of the president. In England, patents are now, as they were before the statute of James 1. granted by the crown .-- What is patenta ble? In general, any invention of a new and useful art, machine, manufacture, or composition of matter not known or used before, or any new and useful improvement in any art, machine, or manufacture, or composition of matter. The invention must be new. In England, a manufacture newly brought into the kingdom from beyond sea, though not new there, is allowed by the statute of James; because that statute allows a patent for any new manufacture within this realm. By the patent law of the U. States, if the thing patented was not originally discovered by the patentee, but had been in use, or had been described in some public work anterior to the supposed discovery by the patentee, or if he has surreptitiously obtained a patent for the discovery of another person, the patent is void. In France, by the law of Jan. 7, 1810, whoever introduces into that kingdom a foreign discovery shall enjoy the same advantages as it he were the inventor. In England, the publisher of an invention is entitled to a

patent, whether he be the inventor or not. The subject of a patent must be vendible,

552 PATENT.

an contradistinction to any thing that is carned by practice. The invention must Dematerial and useful : thus the substitukof one material for another is insuffito support a patent; as of brass to a barrel instead of wooden ones. re cannot be a patent for making in ce what before was made in two. if the elementary thing be substituted ter, as if that be done by a tube s before done by a ring, a patent provement would be good. It e hurtful to trade, nor generally t, nor mischievous, nor iminvention to poison people, e debauchery. Patents for are valid, as for an improv-; but if the improvements without the engine which a patent, they must wait But a new leken out for the improvea Jessop's case, Godson, de del to be void because whole watch, when resided of a single moveproduced, may be 406 the deduction of a new a cld one in a better the tor at a cheaper con artic for at a complete or a section of the section of th mani rate. e teach something metho alen it is connew or spees, and is nected a means, as carried in the cas 魔ine, which was descr of lessening An-engine. Segives to Balble and the consul So a chem the community dokarticle, Hores, &c. beneticial su is a subject d But a patent kavoid. It the manufal ruerely answers as we **po**n is not the subject giere philosophical all **E**whie application or pr subject of a pate obtained for the steam; but only for cation of machiner Right how lost. TM his right to a patent to others to use, his invent was considered that deci lost the right to a patent, of the object-glasses, bed made it known to other

not immediately patented

of an invention is known only to a few persons, and one of them puts it in practice, then a patent afterwards obtained by any one of them is void. This happened to Mr. Tennant, because a bleacher, who had not divulged the secret to any other person but his two servants, had used the same kind of bleaching-liquor for several years anterior to the date of Tennant's patent. Where a person who sought a patent for making spectacles incautiously told an acquaintance of the principle of the invention, by which means a person of the same trade made a similar pair, and the inventor, seeing them in a shop window, employed a friend to purchase them for him, and the patent was afterwards granted, it was said to be secure. The question does not, however, appear to have been brought before a court, and Mr. Godson thinks that the patent was void. A patent for British imperial verdigris was declared to be void, because the inventor had, four months prior to the scaling of the grant, sold the article under a different name. Whether experiments made with a view to try the efficacy of an invention, or the extent of a discovery, are a using, and dedicating the invention to the public, within the statute of James, has not been decided; but it would be difficult to say how much a substance or machine might be used without running great risk of invalidating the right to a patent. In France, if the inventor do not, within two years, put his discovery into activity, or do not justify his inaction, the patent is annulled.

Duration of the Patent. In England and the U. States, patents are granted for a term not exceeding fourteen years. The time in England may be prolonged by a private act, and, in the U. States, by act of congress. In France, by the law already mentioned, patents are given for five, ten or fifteen years, at the option of the inventor; but this last term is never to be prolonged without a particular decrec of the legislature. The duration for imported discoveries is not to extend beyond the term fixed for the privilege of the original inventor in his own country. France, if the inventor obtains a patent in a foreign country after having obtained one in France, the patent is annulled.— Caveat. In England, a caveat is an intrument by which notice is requested to given to the person who enters it, henever any application is made for a bient for a certain invention, which is errin described in general terms. be renewed annually. It is simply

a request that, if any other person should apply for a patent for the same thing, the preference may be given to him who entered it. In the U. States, in case of inter-bring applications for a patent, they are submitted to the arbitration of three persons, appointed one by each applicant, and one by the secretary of state.

Specification. The invention for which coatent is granted must be accurately ascriained and particularly described. The disclosure of the secret is the price of the monopoly. The specification must be such that mechanics may be able to make the machine by following the directions of the specification, without any new incentions of their own. The patent and specification are linked together by the side given to the invention in the patent. and the description of it in the specification. The specification must support the "itle of the patent; thus a patent taken out for a tupering-brush is not supported by the specification of a brush in which the costles are of unequal lengths. It must mount out what parts are new and what dd. It must not cover too much: if it does so, it is not effectual, even to the extent to which the patentee would be otherwise entitled; as, if there be a patent for a machine and for an improvement upon it, which cannot be sustained for the unthine, although the improvement is new and useful, yet the grant altogether is avality on account of its attempting to cover too much. A patent for a new method of drying and preparing malt is not sostained by a specification in which is described a method, for heating, & c., readymade malt: so a patent for an invention founded on a principle already known, for sitting fuel into the tire grate from below the grate, in the specification whereof Ans described a new apparatus, was held to be bad for not claiming the new instrument as the thing invented; so when a patent was " for a new method of completely lighting cities, towns and villages, and the specification described improvements upon lamps, the patent was held to be void. The subject must be given to the public in the most improved state known to the inventor. A patent (in Ungland), for steel trusses was held to be void, because the inventor omitted to mention that, in tempering the steel, he rubbed it with tallow, which was of some use in the operation. The specification must not contain a description of more than the improvement or addition. If there he several things specified that may be produced, and one of them is not new, the whole patent is void. In England, if any considerable part of a manufacture be unnecessary to produce the desired effect, it will be presumed that it was inserted with a view to perplex and embarrass the inquirer: thus, in I Term Reports, 602, in Turner's patent for producing a yellow color, among other things, minium is directed to be used, which, it appeared, would not produce the desired effect, and, for this reason, the validity of the patent might be impeached. In the specification of Winter's patent, I Term Reports, 602, a great number of salts were mentioned, by which it appeared that either might be used to make the subject of the patent, but only one would, in fact, produce the effect; and, for this reason, the patent was held to be void. If the patentee makes the article of cheaper materials than those which he has enumerated in his specification, although the latter answer equally as well, the patent is void. In England, if the improved manner of using the invention be unintentionally left undescribed, still the patent is void. In the U. States, it has been held by Mr. posice Story that the patent is not avoided, unless the detect arose from an intention to deceive the public. (V. Mason's Reports, 1993) In France, the general rules, in these respects, arc similar.

Enrolment. In England, a patent is void unless it is enrolled. The time allowed for the emolment is now generally confined to one month. Eurolinent caunot be dispensed with, though it be to keep the specification secret. After a patent has passed, the time for enrolment cannot be enlarged without an act of parlament. In the U. States, the patent, after the seal of the U. States is affixed, is recorded in a book kept for the purpose. -Infringement. Whether any act is really an intringement of the patent, is a question for the jury. The using the least part of the manufacture is an infringement. In Manton r. Manton, the intringement consisted in making a perforation in the hammer of a gun in a direction g little different from that in the patent article. If the article manufactured be of a different form, or made with slight, and immaterial alterations or additions, if the manufactures are really and substantially the same, the patentee is entitled to a remedy, as where the position of the different parts of a steam-engine were reversed. Where several independent improvements are made in the same machine, and a patent is procured for them in the aggregate, the patentee is entitled to recover

against any person who shall use any one of the improvements so patented, notwithstanding there shall have been no violation of the other improvements.—Remedy for Infringement. The remedies for infringement, in England, are by an action at law for the damages, or by proceedings in equity for an injunction and account. The remedy sought in equity is for instant relief, and it is often preferable to proceed in equity before a suit is commenced at law. In the U. States, the circuit court has original cognizance, as well in equity as at law, in regard to patents, and may grant injunctions. The damages for a breach of the patent right, in the U. States, are three times the actual damage sustained by the patentee: the jury are to find single damages, the court are to treble In France, the patentee, in case of intringement, shall recover the damage he may sustain, and a penalty for the benefit of the poor, not to exceed 3000 francs, and double in case of a second offence.-. Repeal. If a patent be void, in England, the king may have a scire facias to repeal his own grant. All persons are injured by the existence of an illegal patent for an invention, and every one is therefore entitled to petition for a scire facias to have it cancelled. Patents are repealed, in the U. States, by a process in the nature of a scire facias.—Who may obtain a Patent. Aliens who have resided two years in the U. States are allowed to obtain patents under the act of 1800, on their making oath that the invention has not, to the best of their knowledge or belief, been used in this or any country. The English law has no restrictions on this head, and it is every day's practice to grant patents for new inventions to Americans and other foreigners. (See Literary Property.)

PATERA; a small dish or vase, in which the Romans offered libations of wine to the gods at festivals and sacrifices, and in which they received the blood of offered victius. It was also a mark of the deity and his worship. It is seen upon altars, and in the hands of officiating priests,—Patella, a smaller sort, gave to the house-

hold gods the name Patellarii.

Patenerics, Caius Velleius, an ancient Roman historian, was born in the year of Rome 735, of a family in Campania, which had borne various important offices in the state. He served under Tiberius in Germany, as commander of the cavalry, and, in the first year of that emperor's reign, was nominated pretor. Nothing further is known of him; but the praises he bestowed upon Sejanus have led to a

supposition that he was a partisan of that minister, and involved in his ruin. His, death is placed by Dodwell in the year of Rome 784, in his fiftieth year. Paterculus composed an abridgment of Roman history, in ten books, of which the greater part has perished, and, unfortunately, that which remains is incurably corrupted, only one manuscript having been discovered. His style is pure and elegant, and he excelled in a brief and foreible manner of drawing characters; but his connex-ions with Tiberius and Sejanus rendered him an adulator of those detestable persons, and warped his representations of the actions and characters of the republican party. The most esteemed editions of this classic are those of Burmann (Levden, 1719), of Ruhnkenius (Løyden, 1779), and of Krausius (Leipsic, 1800).

PATERNOSTER: 1. the Latin for our Father, or the Lord's prayer; 2. every tenth large bead in the rosary which Catholics use in their devotions; at this they repeat the Lord's prayer, and, at the intervening small ones only an tre Maria;

3. the resurv itself.

Pathognome, in medicine (from $\pi \sigma h$), a discuse, and $\gamma \alpha \omega \sigma \omega \omega$, 1 know); an epither signifying that a symptom or course of symptoms to which it is applied is inseparable from, or exclusively characteristic of a particular disease.

PATHOGONY (from παθω, suffering, and γα, γ origin); the science of the origin of

diseases; a part of pathology.

Pathology (from rates, a disease, and λωγως, doctrine or system) signifies the science or doctrine of diseases. As physiology teaches the nature of the functions of the living body in a state of health, so pathology relates to the various derangements of these limetions which constitute disease. Its objects, therefore, are to ascertain the various symptoms which characterize the disorders of each organ of the body, and especially the diagnostic and pathognomic symptoms, which afford the means of discrimination between diseases that resemble each other; to determine the causes, both predisposing and exciting, by which diseases are induced; to point out the prognosis or the tendency and probable event of each disease, from the changing combination of the symptoms; and, lastly, to teach the indications of cure, and the nature and operation of the remedies adapted to the various circum-. stances and periods of diseases.

PATKUL, John Reginald, a Livonian patriot, was born in 1660. When Charles XI of Sweden had encroached on the

rights of the Livonian nobility, Patkul houses generally make a mean appear-took an active part in remonstrating and ance. The houses of the Europeans are obtaining a redress of grievances. One in the suburbs, called Bankypore, and are of his appeals on this subject (1692) induced the government at Stockholm to summon the provincial authorities, and Patkul in particular, to the Swedish capital. Patkul received a safe conduct, and went to Stockholm; but, fearful of the intention of the court, he withdrew into Courland, and was declared infamous, and condemned to lose his right hand and his head. After spending some time in Switzerland and France, he was received, in 1698, into the service of the Saxon court as privy counsellor, and used all his efforts to carry into effect the plan of a union with Russia and Denmark against Sweden. (See Augustus II, and In 1702, he went to Charles XII. Petersburg, and the league with Russia was concluded. He now entered the Russian service, and, after being employed in various capacities, was sent as Russian ambassador to Augustus, and soon after received the command of the Russian auxiliaries, at the head of whom he captured Warsaw. Augustus had just renewed his alliance with Russia by a personal interview with the ezar, when, in December, 1705, Pakul, with eighteen of his confidential friends, was arrested and thrown into prison, under pretence that he had entered into treasonable regotiations with Austria and Sweden, and had endeavored to excite dissensions between the czar and Augustus, Augustus was soon after obliged to submit to the peace of Altranstadt (Sept. 24, 1706), in which the surrender of Patkul to Sweden was stipulated. He was accordingly delivered up to the Swedes, although Augustus had given secret orders that he should be permitted to escape. Peter in vain demanded the release of his The Swedish troops are ambassador. said to have tied him to a cannon on their march from Saxony, and he was tried by a court-martial at the monastery of Casimir, near Posen, and condemned to death. Oct. 10, 1707, he was broken alive on the wheel: his head was cut off and his body was quartered.

PATMOS. (See Sporades.)
PATMA; a city of English India, in the presidency of Bengal, on the Ganges, 250 miles north-west of Calcutta; population, 312,000. The city is about four miles long and one broad, enclosed by a brick wall, having small round bastions; but. many parts are fallen to decay. It contains some mosques and temples, but the

in the suburbs, called Bankypore, and are handsomely built of brick. The surrounding country produces the finest opium, and saltpotre, grain, indigo and sugar. carries on a large trade with Calcutta. has been in the possession of the British, since 1763, and is the residence of a provincial court of appeal, &c. It is supposed to be the ancient Palibothra.

PATOCKI, OF BATOCKI; two thin sticks with which scriminals were formerly beaten in Russia. The party was stretched on the ground, while one person sat upon his head, the other on his feet. The severity of the punishment may be judged of from the fact that it was abolished by the code of Catharine II, though the knout was left.

Patras (anciently Patra); a town of the Morea, in the Greek province of Achaie, on the gulf of Patras (see Lepanto); lat. 38° 14° N.; lon. 21° 40° E. It is a well fortified, and its citadel was never taken by the Greeks, but capitulated to the French troops in 1828. Previous to the revolution, if contained about 10,000 inhabitants, chiefly Greeks, and was the emporism of the Morea. The town was almost whelly destroyed in the attacks on the citadel, but has already a population of 8000, who have built up temporary houses of rough boards. (See Greece, Revolution of.)

Patriarchs (from the Greek zarma family, a got, head) are the antediluviar heads of families, and the three fathers of the Hebrew race, Abraham, Isaac and Jacob. The epithet patriarchal is hence used to denote the innocence and simplicity of the early ages, and the venerable dignity of age. The patriarchal government is that which prevails in a state of society in which the people are not yet organized into a nation, but form independent tribes, clans or families, under the government of their common ancestor, or his representative, the existing head of the family. The term patriarch, at a later period, became the title of the presidents of the sanhedrim, which exercised a general authority over the Jews of Syria and Persia after the destruction of Jerusalem. The patriarchate of Tiberias for the Western Jews subsisted till 415, that of Babylon for the Eastern Jews, till 1038. From them, the title was adopted by the Christians, who applied it, from the beginning of the fifth century, to the bishops of Rome, Constantinople, Alexandria, Autioch and Jerusalem. These patriarchs.

exercised the power of consecration, and of supervision over the archbishops and bishons within their jurisdictions. the patriarch of Rome became the supreme pontiff of the West (see Pape), the four heads of the Eastern church preserved the title of patriarch, but were nearly stripped of their authority by the conquests of the Saracens. The Armenian, Abyssinian, Jacobite and Maronite churches have their own patriarchs. The patriarch of Constantinople is the primate of the Greek church in the Ottoman empire, and bears the title of acumenical, with the He is inrank of a pacha of three tails. vested with his dignity by the sultan. (See Greek Church.) The patriarch of Moscow, whose authority extended over the Russian church, was superseded, during the reign of Peter the Great, by the holy synod. In the Catholic church, the archbishops of Lisbon and Venice have the title of patriarch. The latter has no superiority over other archbishops; the former is primate of Portugal. The patriarchate of Aquilcia was divided, in 1750, into the archbishopries of Udine and Górz (since of Laybach).

Patricians; a name given to certain families in Rome, distinguished for their origin, wealth and honors, and from which the senators were chosen. After the manner of the Athénians, Romulus is said to have divided the Roman citizens into two classes,--patricians and plebeians. The former were originally called patres (fathers), because they were viewed as the fathers of the people. From this name was derived the title patricians. From these noblemen Romulus formed a senate of 100 persons, who tilled the highest offices of state in war and peace, and performed the religious services of the temple till the year of the city 495. The ` members of this body were styled senators, from senectus (age), because none were chosen but those, who enjoyed the fullest confidence of the people from their age (which was required to be at least twentyfive years), their experience and their skill in the ablumnistration of public atlairs. When the Sabines were received into Rome, 100 new members were added to the senate. On the fall of the republic, the number had increased to more than 1000; but the emperor Λ ugustus reduced it to 600. A distinction was made be-tween the patres majorum gentium (patri-cians of the older families), who were descended from the senators chosen by Romulus, and the patres minorum gentium (patricians of the younger families), de-

scended from the senators added by Tarquin the elder. The political superiority of the patricians over the plebeians was secured to them by the right of patronage (jus patronatus); but they lost their privileges in the year of the city 261, when the plebeians obtained a complete political equality with the nobles (see Rome), and the highest offices became open indiscriminately to patricians and plebeians, and, after the year 308, intermarriages between the two classes were permitted. There was no longer any distinction except that arising from family descent. After this, a sort of nobility (nobilitas) was attributed to those who had enjoyed the three highest offices in the state (the offices of consul, pretor and curale edile). This nobility was transmitted to their posterity by the jus imaginum - a right to set up in their porticoes the waxen images of their ancestors. It was not necessary for a person to be descended from a patrician family in order to enjoy this distinction; but it added to the honor of the nobility, particularly if accompanied with great merit. The dignity of the patricians was lessened by the fall of the republic, the civil wars, and the establishment of the imperial dig-The conquest of Rome by the Goths, which deprived many of the patricians of their liberty or their lives, or compelled them to flee to Constantinople, led to the abolition of all distinction between patricians and plebeians. When the seat of government was removed to Constantinople, Constantine the Great, desirous of restoring the ancient Roman ranks, instituted a new patrician dignity, which was a mere personal title, and which could be acquired only by high birth and distinguished merits. Under the Carlovingians and the succeeding emperors, the title of patrician denoted an exalted rank, and was connected also with the government of Rome and its provinces, and the support of the papal see. Charlemagne assumed the title of a Roman patriciar, before he was declared emperor, and Henry IV, as such, deposed pope Gregory VII. In modern times, a few noble families in the imperial cities were called patricians, because they were especially entitled to certain high offices. The patricians arose in the twelfth and thirteenth centuries, when the fear of depredations in the open country, and the flourishing state of the cities, induced many noblemen to settle in them. (See Nobility.)

PATRICK, ST., the apostle of Ireland, was born, according to some accounts, in Brittany, near the end of the fourth century, and in his youth was carried to Ireland by some freebooters, and employed in keeping sheep. After spending six years in Ireland, he finally returned home, but, as he relates in his Confessions, was moved by visions to undertake the conversion of the Irish to Christianity. In spite of all obstacles, he preached the Christian doctrine among them, and made. many converts. He established churches and schools, ordained priests, as bishop of Ireland, and created bishops. The last years of his life were devoted to acts of picty and religious meditation, and he died, at an advanced age, in 493 or 483. His works, containing his Confessions, were published with remarks by Ware (London, 1656).

PATRIMONIAL OF HEREDITARY JURISpiction: that jurisdiction which a person exercises over others by right of inheritance, or as owner of an estate. It has its name from being considered part of the inheritance (patrimonium). It exists still in some parts of Germany, sometimes, though rarely, including even criminal jurisdiction. (See Manor.)

PATRIMONIUM PETRI (Patrimony of Peter; is the name of a part of the papal dominions; a province which it is pretended that the emperor Constantine gave to the pope in the fourth century, but which, in reality, came to the popes in the twelfth century, by a grant of Matilda, countess of Tuscany. (See Constanting,

Matilda, and Pope.)

PATRIOT. In the Latin of the middle ages, patriota signified a native, in contradistinction to peregrimes, a foreigner, i. c. one who did not enjoy the rights of citi-As the native, i. e. the citizen, zenship. was considered to be attached by his interests to the commonwealth, the word gradually received the meaning of a citizen who loves his country. In the French revolution, it meant & democrat, an adhe-, rent of the revolution.

PATRISTICS, THEOLOGIA PATRISTICA; that branch of historical theology, which is particularly devoted to the lives and doctrines of the fathers of the church. The German Protestants have recently paid particular attention to it, as affording a satisfactory, though laborious way of arriving at the history of the Christian doctrine and constitution in the first six centuries. (See Fathers of the Church.) Fues, in Tübingen, published, in 1827, a cheap Bibliotheca Patrum Latinorum, edited by Protestant and Catholic theologians,

PATROCLUS, the friend of Achilles, was the son of Menorius, one of the Argo-47*

nauts, and of Sthenele or Philomela. He accidentally killed Clysonymus, the sor. of Amphidamus, in a game of dice of Opus. His father saved him by flight, and carried him to Peleus, by whom he was kindly received and educated as the conpanion of his son. He accompanied Achilles to Troy, and remained, like him., mactive, when the anger of Achilles prevented him from taking a part in the war. At length the necessity of action seemed so urgent that Achilles permitted Patrochis to go to the war, arrayed in his own arinor. His success was at first brilliant; but, Apollo having deceived him, and rendered him defenceless, he was slain by Hector. The Greeks recovered his body, which they interred with the highest marks of honor, and established solemn funeral games to his memory. Achilles then resolved to avenge his friend, and to accompany him in death.

Patron, in war; a round or march made by the guards, or watch, in the night time, to observe what passes in the streets, and to secure the peace and tranquility of a city or camp. The patrol generally consists of a body of five or six men, detached from a body on guard, and com-

manded by a sergeant.

Patron; in general, a protector. The Latin patronus signified, in the Roman republic, a patrician, who had plebeians, , called clients, under his immediate protection, and whose interests he supported by his authority and influence. (See Patricians.) Jus patronatus signifies, in the Roman law, the right which a master retains over a freed slave. When Rome had reduced many nations under her voke, noble Romans were sometimes the patrons of whole cities and provinces, and such patronage even descended by inheritance in some families. Thus the patronage over the Lacedomonians was yested in the family of the Claudii; that of the Sicilians in the family of the Marcelli—an arrange. ment which, in so crude a state of politics, was not without beneficial consequences. Patron was also the title of every advocate who represented the interest of another, his client (patronus causarum). Patron, in the canon or common law, denotes a person who founds or endows a church or benefice, and reserves to himself the right of patronage, i. c. the right of disposing of it. (See Advowson.) The right of patronage was introduced among Christians towards the close of the fourth century, with the view of encouraging the opulent to creet churches, by giving them the privilege of appointing the ministers to

officiate in them. Lay patronage is a right attached to a person either as founder or as heir of the founder, or as possessor of the see to which the patronage is annexed. Ecclesiastical patronage is that which a person is entitled to by virtue of some benefice which he holds.

PATUCKET. (See Pawtweket.) Page, an apostle, was born of Jewish parents, at Tursus, in Cilicia, and inherited the rights of a Roman citizen. He received a learned education, and early went to Jerusalem, to study under Gamaliel, one of the most celebrated Jewish Rabbins in the time of our Savior, who instructed him in the Jewish laws and traditions. He was also well acquainted with the Greek poets and philosophers, as his Epistles show, and learned a trade (probably that of a maker of tents and hangings), according to the custom of the Jewish teachers, by which he afterwards supported himself in his travels. Thus prepared for the office of teacher, he joined, a few years after the death of Jesus, the sect of the Pharisees, and became a persecutor of the Christians; to crush whom the sachedrim employed him, both in and out of Jerusalem. The Acts of the Apostles contains several instances of the heat of his zeal in this cruel work, upon which he entered from his attachment to the law of his fathers. He was even on his way to Damascus, with full power from the chief priests to arrest the Christians, when he was led, by a miracle (Acts ix and xxii), to view Christianity in a different light, and to seek a personal knowledge of the excellence of the religion from the instructions of Christian teachers, This sudden conversion, effected by the divine interposition, was indicated by the change of his name from Saul to Paul, and he engaged in the work of an apostle with an ardor that overcame every difficul-Arabia, Syria, Asia Minor, Greece, and the islands of the Mediterranean, were the scenes of his unwearied activity in promulgating the doctrines of Christianity. In all his journeys he labored to establish new churches and to confirm the faith of those already existing. He made himself useful to the churches of Antioch, Ephesus and Jerusalem, by instructing them, by arranging their ceremonies, and collecting alms for the poorer members, The churches of Philippi, in Macedonia, of Corinth, Galatia and Thessalonica, honored him as their founder; and the Epistles in the New Testament, which he. wrote to these churches, and to the churches in the chief cities of Greece and

Asia Minor, and to Rome, show the paternal relation in which he stood to them, and the paternal care which he exercised over them. By admitting the Gentiles te a participation in the blessings of Christianity, without requiring them to submit to the Jewish rites, he promoted the progress of Christianity far more than the other apostles, who at first baptized none but their own countrymen. But this conduct exposed him to the hatred of the Jews, who persecuted him as an apostate; and every thing at Jerusalem was prepared for his destruction. In the 60th year of the Christian era, after laboring with unwearied zeal, for more than twenty years, to spread the doctrines of Jesus, he boldly ' went to Jerusalem with the money which be had collected for the support of the oppressed Christians in Palestine. He was there arrested and brought to Casarea, where he was kept a prisoner for two years by the Roman governors, Festus and Felix. The fearless spirit with which he explained his whole conduct, excited the same admiration which had been produced in the Arcopagus and among the wise men of Athens (where Dionysius, the Arcopagite, became one of his 'adherents), by his enthusiastic eloquence. Having been illegally imprisoned, he appealed, as a Roman citizen, to the emperor, and was sent to Rome. He was shipwrecked at Malja (see Melita), and in the spring of the year 62, arrived at the capital of the world. He was treated with respect, but as a prisoner of state, and gained over many distinguished Romans to the Christian faith. It is certain that he was set free in the year 61; but the account of his further travels in Spain, Britain, Macedonia, Greece, and the borders of Asia, is founded solely on conjecture. In the year 66, Paul returned to Rome, was again arrested, and died the death of a martyr. The history of no apostle is so rich in remarkable events, hardships and sufferings, as that of this great man. Even the enemies of the religion for which he lived and died, could not deny the gifts of his mind, his deep and extensive knowledge, profound understanding of the nature of religion, richness and acuteness of thought, and a talent for teaching, which combined elegance, perspicuity and fervor.

Paula, Francis de. (Sec Francis de Paula.)

PAUL DE LOANDA, ST. (See Loanda.)
PAUL I, emperor of Russia, son of Peter III and Catharine II (q. v.), was born in 1754. His father, on account of his dis-

like of Catharine, would not acknowledge his legitimacy; but on the death of Ivan (q. v.), in 1763, he became the sole remaining heir to the crown, and was placed under the care of count Panin and Æpinus. His mother treated him with great rigor, and kept him constantly estranged from public affairs during her life. In 1773, he married a princess of Hesses-Darmstadt, who died soon after, and, in 1776, he married a princess of Würtemberg, who became the mother of the late emperor Alexander (q. v.), the late prince Constantine, the emperor Nicholas, and the grand-prince Michael, and several daughters, among whom is Anna, wife of the present prince of Orange. 1780, he travelled, with his wife, under the title of count of the North, in Poland, Germany, Italy, France and Holland, and after his return retired to his usual place of residence, the palace of Gatschina, and was permitted to take part neither in civil nor military affitirs. On the death of Catharine in 1796, the prince was finally released from his long restraint; and the first acts of his government, after performing the obscanies of his mother, and paying the last honors to his father, were dietated by benevolent intentions. He put an end to the war with Persia, and liberated the Poles who were in confinement in But the severe treatment to which he had been subjected for forty years, had exercised a most injuriou influence upon his character, and, combined with the natural violence and impetuosity of his temper, led to those acts of despotism and folly which stain his reign. joined the coalition of crowns against France, and sent 100,000 men, partly, under Suwaroff and Korsakoff, to Italy and Switzerland, and partly to Holland. The Switzerland, and partly to Holland. Russian arms were at first successful; but, after the defeat at Zurich (see Mussina), his increasing distrust of the English and Austrian courts, and the artful manage-ment of general Bonaparte, who dismissed the Russian prisoners, newly clothed and . armed, and insinuated new suspicions into the mind of the czar, broke off his connexion with the coalition. Louis XVIII. who had been received into the Russian territory with every mark of attention, and the French emigrants, were ordered to quit the country. Paul had caused himself to be declared grand-master of the knights of Malta (1798), after the resignation of that dignity by the baron Hompesch; but England, having conquered the island in 1800, refused to surrender it to the Russian emperor. Paul therefore laid an em-

bargo on all English ships in the Ressian ports, and prevailed upon the Swedish. Danish and Prussian courts to enter into a convention for the protection of their commerce against the encroachments of the English by sea. His internal administration was characterized by similar traits of impetuosity, and, in many cases, of tyranny. His innovations in the army (particularly the introduction of hairpowderand queues); his prohibition against the wearing of round hats, pantaloons, &c.; his order obliging all persons who met him in the streets to leave their carriage and prostrate themselves before him; and other acts of a similar nature, excited general discontent. Other measures, of a more serious character, finally produced a conspiracy among the nobles. They excited mutual suspicions between Paul and his sons, and Alexander finally consented to assume the government, until the mind and health of his father were restored (See Alexander.) The conspirators entered the antechamber of the emperor in St. Michael's palace, at 11 o'clock at night (March 11, 1801), by a secret passage, and the door to the emperor's chamber was opened by the guard, who was decrived by an alarm of fire. An act was then read to him, by which he was to acknowledge himself incapable of conducting the government, and surrender it to Alexander. Paul cried out, "I am emperor, and will remain so;" and he was then despatched by the conspirators. Some accounts say that he was strangled in his bed, with his own sash. In the Russian manifesto or the subject, his death was ascribed to apoplexy. (See Châteaugiron's Notice sia la Mort de Paul, and Carr's Northern Summer.)

PAUL OF VENICE, father, a celebrated ecclesiastic and historian of the sixteenth century, whose proper name was, Pietro Sarpi, was born at Venice, August 14, 1552, and was the son of a merchant of that city. He entered young into the religious order of the Servites, in his twentieth year was appointed whaplain to the grand-duke of Mantua, and lecturer on the canon law. After two years, he returned to Venice, and became provincial of his order. He was afterwards made procurator-general of the Services. treacherous correspondent having betrayed a letter of father Paul, in which he had observed, that, so far from covering the dignities of the court of Rome, he held them in abomination, brought on him the imputation of being a heretic, while his liberal intercourse with 'eminent Protes-

tants contributed to increase the prejudices thus excited. In a dispute between the pope and the Venetian government on the subject of ecclesiastical immunities, father Paul showed himself a strenuous advocate for the cause of liberty, and was summoned to Rome, on pain of excommunication, to answer for his conduct; but the affair was compromised. the vengeance of his political enemies may be attributed an attempt to assassinate him in 1607; on which occasion he received many dangerous wounds from a band of ruffians. Father Paul employed the latter part of his life in writing the history of the council of Trent, in which he has developed the intrigues connected with the transactions of that famous assembly, with a degree of boldness and veracity, which, renders the work one of the most interesting and important productions of the class to which it belongs. The kdors of father Paul extended to various branches of knowledge; he was deeply skilled in the canon law, and distinguished for his acquaintance with anatomy. He appears to have discovered the valves of the yeins which contribute to facilitate the circulation of the blood. He died January 14, 1622, and is said to have expired after uttering the words Esto perpetua, which have been construed as a prayer for the prosperity of Venice. The history of the council of Trent was first published in London in 1619, having been transmitted. to this country through the medium of the English resident at Venice, sit Henry Wotton, a personal friend of the author. The works of father Paul were printed at Veroua, 1761 (8 vols., 4to.), and at Naples, 1790 (24 vols., 8vo.).

PAUL THE DEACON, OF PAULUS DIAC-ONUS, also called WARNEFRIOUS, and PAULUS MONACHUS, was born at Friuli, in the eighth century, and was educated in the court of the Lombard kings at Pavia. On the capture of Desiderins, the last king of the Lombards, by Charlemagne, he retired to the monastery of Monte Unisno, where he took the habit. He wrote a history of the Lombards; and, as he was an eye-witness of many of the events he mentions, his statements are held to be generally correct. It is contained in Muratori's Rerum Italic, Scriptores.

Paul, St., Vincent de, the founder of the priests of the mission, born in France, in 1576, studied at Toulouse, and, having been captured by the Turks, remained a considerable time in slavery, during which he converted his muster. On his return to France, he became parish priest at Clichy, and, by the aid of a rich and pious lady, founded a congregation of missions, the members of which were devoted to preaching to the poor, and performing other acts of benevolence and mercy. Their chief seat was the religious house of St. Lazarus, at Paris, whence they were called *Lazaries*. (q. v.) Vincent de Paul died in 1660, and was canonized in 1737.

PAUL, CHURCHES OF ST. The name of St. Paul belongs to two celebrated churches, one in Rome, the other in London. The former, which stood without the walls of the city, was burnt July 15, 1823; and the latter, Wren's celebrated work, occupies the place of the beautiful Gothic cathedral (consumed in the great conflagration of 1666, which Dugdale and Hollar have described). The church at Rome, in an unhealthy situation, upon the road to Ostia, a league from the city, was one of the four Basilice of Rome, and one of the most important remains of ancient Christian architecture. The first church on this spot is said to have been crected by Constantine, at the request of pope Silvester, upon the place where the apostle Paul was buried. The emperor Theodosius is said to have rebuilt it upon a much extended plan (the cause of the destruction of the first edifice is not mentioned), and following popes completed and adorned it. Even the mosaics upon the outside, the work of Grecian artists, betrayed their early origin: the interior ornaments were probably likewise the work of Greeks, who had fled from the iconoclasts, and taken refuge at Rome. The multitude of magnificent marble pillars, in the interior of the church; the numerous paintings upon the walls; the mosaics upon the principal arch of the central nave; the rafters left visible, made, as'report says, of cedar of Lebanon; the floor, composed of various kinds of marble, important to the archæologist on account of the inscriptions found upon it; the great dimensions of the edifice, and a door of 1070 pounds weight, cast at Constantinople,—gave the church a very distinguished place among the public edifices at Rome. The series of likenesses of the popes, 253 in number, which . surrounded the interior wall of the principal nave, was particularly valuable. All this was consumed in one night by a fire occasioned by the carelessness of a workman who was repairing the roof. The marble pillars were partially calcined and so far injured, that very few of them could be again used in building

The work of Nicola del Nicolai, Della Basilica di S. Paoli (Rome, 1815, fol.), gives the most accurate description of

this building.

St. Paul's Cathedral, in London, upon an eminence to the north of the Thames. After several attempts to repair the old Gothic cathedral on the same spot (burnt in 1666), every trace of it was removed, and a new foundation laid for the present church. The first stone was laid June 21, 1675. In ten years, the walls of the choir and of the side aisles were completed, together with the circular porticoes on the north and south sides. The last and highest stone of the building was placed upon the summit of the lantern in 1710, and soon after the queen and the two houses of parliament attended service in the church. The whole building was completed in thirty-five successive years, under one architect, sir Christopher Wren, one master-mason, Thomas Strong, and one bishop of London, doctor Henry Compton. The building is of Portland stone, in the form of a cross. Two rows of massy pillars divide the interior into a nave and side aisles. The west front towards Ludgate street is very noble. The elevated portico forming the grand entrance consists of twelve Corinthian columns, with an upper portico of eight pillars of the Composite order, supporting a triangular pediment. The entablature represents, in relief. the conversion of St. Paul, a work of Two turrets adorn the Francis Bird. north-western and south-western angles of the cathedral. Upon the south front, which corresponds with the north, is a phoenix rising from the flames, with the motto Resurgam (I shall rise again). The dome is one of the most remarkable points of sight in the view of London. But the interior decoration of this building does not correspond with its exterior magniticence. The pavement is composed of slabs of black and white marble, joined in the manner of a large chess-board, increasing thereby the feeling of vacancy which these vast unornamented walls excite. Captured flags are hung in various The most parts of the dome and nave." favorable view of the interior is from the whispering gallery, in the lower part of the dome. Sir James Thornhill's paintings, illustrative of the most remarkable occurrences in the life of Paul, can be seen to most advantage from this situation. The great bell is tolled only on the death of some member of the royal family, of the lord-mayor, of the bishop of London, and of the dean of the cathedral.

You reach the ball by 616 steps. To break the uniformity of the interior, it was suggested, in 1790, to erect in the interior. monuments and statues to the illustrious dead. The first was in memory of John Howard (1796). 'The monument of Nelson, who is buried in a tomb in the middle of the building, is the work of Flaxman. There are monuments also to sir W. Jones, earl Howe, sir Joshua Reynolds and others. Over the entrance to the choir, is a marble slab, with this inseription in Latin: "Here reposes Christopher Wren, the builder of this church and city, who lived for more than 90 years, not for his own, but for the public good. Read-er, dost thou seek his monument, look around thee," (See Bren.) The cost of this building was about £1,500,000. J. Gwilt has written a history of St. Paul's. In the Illustrations of the public Build ings of London (with historical notices and descriptions of each building), by the architects J. Britton and A. Pugin, We find, in No. I (Londor, 1823), St Paul's church represented and described.

Paul Veronese. (See Cagliari.)

PAULETTE. The hereditary succession and venality of almost all the offices in the judicial and financial departments was an abuse deeply intervioven with the whole administration of ancient France. and a source of the most dreadful disorders. In the early period of the monarchy, offices were held only at the pleasure of the king; the consequence was, that on the death of the monarch, all the commissions on which the offices of state depend ed expired. Hence it was necessary for : confirmation from the new king to be obtained, and this rule was regularly observed, particularly from the time of Henry II : nevertheless, the maxim still remained is force, which Louis XI had pronounced in an ordinance of 1467, that no officer should be discharged but on his own voluntary resignation, or upon judgment had against him. It is uncertain whether Louis XI was the first who made offices in the judicial and financial departments venal; but it is well known that Louis XII adopted this method to defray the expenses of his campalgn in Italy. Francis I gave a new character to the offices of the tax-gatherers by selling them, so that the purchase-money might be regarded as a kind of security; and, under Henry II, this venality was extended also to judicial stations. Instead of the former high of fices, in which a single man, as grand bailli, sénéchal, &c., had administered all branches of public power, judicial

tribunals were crected with a collegial constitution (sièges présidiaux), in which the dignity of president and counsellor was to be bought with money. Under the succeeding reigns of Francis II, Charles IX, and Henry III, this arrangement was continued, although both the estates of the kingdom and the parliaments were strongly opposed to it. The universal venality of office was legally confirmed by an ordinance of 1597, which permitted all officers to resign their places in favor of a third-a thing which had often been done, though never before authorized To put an end to the 'urgent by law. requests for reversions, the secretary, Charles Paulet, in 1604, devised the plan of granting liberty to all who should pay a yearly tax of one sixticth, or one and two thirds per cent., of the income of their offices (properly called annul, but from its inventor, Paulette), to transmit their offices to their heirs, who might either hold them or sell them again. Under the succeeding reign, the abuse of this venality of office became gross. If the government wanted money, a number of new offices were created, and a regular salary from the treasury affixed to them, which was to be viewed as the interest of the purchase money. To hold out further inducements to purchasers, other incomes, such as fees and the like, were added, which generally amounted to much more, and necessarily increased the oppressive taxes of the people. Hence the current price of such offices, partly on account of the fees in addition to the salary, and partly on account of the consequent influence and honor, was much higher than the sum paid for them to the public treasury. This system had, moreover, other disadvantages, besides the oppression of the people. It closed the entrance to offices of state against all who had no recommendation but merit. It augmented the number of state-servants beyond all proportion; it brought high stations into the hands of ignorant and faithless men, and drew away from agriculture and trade the capital necessary for their prosperity. It led, finally, to the undermining of the municipal constitutions, which happened near the end of the reign of Louis XIV; for when no more public offices could be established, those of the towns were arbitrarily seized, which had formerly been filled by the vote of all the freemen. In vain did the more worthy ministers strive to cure the daily increasing evil; necessity constantly dragged them back to the old system. In 1664, according to an es-

timate made by Colbert, and communicated to the government by Forbonnais-Recherches sur les Finances de France (Au Inquiry into the State of the Finances of France)—it appeared that there were 45,780 venal offices in the judicial and financial departments, the duties of which might be as easily performed by 6000. The salaries attached to them, and paid out of the public treasury, were estimated at over 8 million livres, for which the king received an *innuel* of only 2,000,000. The whole amount of the drain which they occasioned on the people was estimated at 1874 millions, and the current price of the offices at near 420 millions. Colbert undertook to diminish the number of offices, but the wars and extravagance of Louis XIV compelled his successor to resort to the same means for procuring money. From 1689 to 1695, 294 millions were thus collected, and from 1701 to 1709, 426 millions. Some attempts were afterwards made to diminish the evil, but, with all its deleterious effects, it continued till the revolution.

PAULICIANS. In the chains of the Caucasus and Taurus, which unite in Armenia, a few of the ancient Manichesans (q. v.) and Gnosties were remaining in the eighth century, who assumed to name of Paulicians, from Paul, there leader, to save themselves from the persecutions to which the Manicharus were always exposed. As iconoclasts, they were favored or persecuted by the Greek , emperors, according as the latter were favorable or otherwise to the worship of images, which the Manicheans totally rejected. When their Manicheism was discovered, in the ninth century, they were subjected to violent persecution. Many of them were put to death; others fled to Mohammedan countries, and assisted them in their wars against the Greeks. In the tenth century, the attempts at the conversion of some Paulicians who returned and were fixed in Thrace by John Zimisces, the Greek emperor, were as unsuccessful as the persecutions had been. When the crusades had opened a way to the middle of Europe, different companies of this sect passed into Bulgaria by land, and others into Italy and Spain, by water. Their successors have since appeared in various parts of Europe, under Of Paulician origin different names. was the doctrine of those devotees resumbling the Messalians (q. v.), who were called Bogomiles, on account of their constantuse of the expression Bogmilui (in Bulgarian, God have mercy on you). In the

fifteenth century, many of them were burned at the stake in Constantinople. (For the doctrines of the Paulicians, see Manichaans.)

PAULINE; princess Borghese, sister to Napoleon. (See Bonaparte.)

PAULINIANS, or PAULANI. (See Minim.

Friurs.) Paritis, Henry Eberhard Gottlob, one et the most distinguished German theologians, professor at Heidelberg, was born September 1, 1761, at Leonberg, near Stuttgart. He studied theology at Tübingen, and devoted himself, with much zeal, to the Oriental languages. In 1789, he was appointed professor of the Oriental languages at Jona, after having travelled in Germany and England. Here he was occupied entirely with the study of the Old and New Testament, and wrote his Commentar des Neuen Testaments (1800, 4 vols.; new edition, 1804). He endeavored to ascertain the original meanang of the Old Testament, from a consideration of the times in which the parts were written, as his Claris on the Psalms and Isaiah prove. Meusel enumerates all his writings on Oriental literature. In 1794, he was appointed to one of the chairs of theology. In 1803, he accepted an invitation to Wurzburg, where his consistorial labors prevented him from pursuing his literary researches, and, after some time, when the Protestant facalty in Warzburg was abolished, he was appointed a counsellor of ecclesiastical affairs and public instruction in Bamberg, Nuremberg and Anspach successively. At length, he was restored to the academa life, by being appointed professor of exegesis and ecclesiastical history in the university of Heidelberg. In 1819, he established his Sophronizon-a historical, political periodical, for the service of church and state. It was received with great applause both by Catholics and Protestants. The university of Freiburg gave him the degree of doctor of laws, in consequence of his critique on the famous process of Fonk. In 1825, he began a theological periodical-Der Denkglaubige (the thinking Believer)—and, in 1827, another periodical—Kirchenbeleuchtungen. In the kater, he strives to show the true state of the Roman Catholic and Protestant churches in the former, the harmony of reason with the doctrines of primitive Christianity, which has been the aim of all his inquiries. Paulus is one of the leaders of the rationalist party in Germany; he is distinguished for unshaken probity, unrelaxed and fearless zeal for truth.

PAUPER COLONIES. (See Colonies, Pauper.)

PAUPERISM. "It has been computed," says doctor Franklin, "by some political arithmeticians, that, if every man and woman would work four hours each day in something useful, that labor would produce sufficient to procure all the mecessaries and comforts of life; want and miscry would be banished from the world, and the rest of the twenty-four hours would be leisure and pleasure." When we estimate what a man will do in four hours, we necessarily suppose a certain rate of production; and this rate is greater or less according to the strength, skill, industry and implements of the workman. The doctor's political arithmetician, however, probably supposes the ordinary rate of productiveness. In regard to consumption, the disproportion between men is still greater. Compare the costly collection of materials employed for the support of the inmate of a palace and the scanty supplies of the inmate of a hut. The estimate, therefore, must suppose an average rate of consumption, as well as of production. Perhaps, thus understood, it is true. We may go a step further, and safely say, that the products of labor in every civilized community, at ' the present actual degree of skill and industry, are sufficient to supply a competence to all. What, then, hinders all the world from enjoying competence, happiness and content, as far as provisions and accommodations for living are concerned? Two great obstacles, viz. the one, that labor is not equally shared by all; the other, that the labor of all is not equally . well rewarded. These two causes always have prevented that universal competence which philanthropists desire, and to promore which, in some degree, is the great object of their labors. They aim to enable as many persons as possible to command the means of support upon those terms which the prevailing laws, habits and customs of society impose. In every society, the means of livings of different descriptions are estimated, by general consent, at certain rates; whatever a man can do towards supplying his own, or the general consumption, and whatever is comprehended in the mass of this consumption, is estimated at a certain value or rate. The object of the laws is to protect each one in the possession of his part of the general stock, and to save him from the necessity of parting with it without receiving an equivalent. To enable every one to command a competence, the main

requisites are, to enable him to exchange his labor for the things which he needs. and to make him willing to labor for the means of support. One great purpose of a large part of the social institutions, including the public schools, and the institations for moral and religious instruction, is to make him willing and able to earn his living. The laws, moreover, often make provision, and the sentiments of a well-ordered community universally prescribe, that young men should be educated to some employment. In the very elaborate examinations which took place in England, in 1816, under the direction of a committee of the house of commons, on the subject of pauperism and crimes, all the facts disclosed, and opinions expressed, tended to show that the amount of poverty and crime depended almost wholly on the character and habits acquired by the young. No advantages of climate, soil and situation, will secure a people from the evils of pauperism, and its consequence, crime. Some of the most salubrious and fruitful countries abound in both. Scotland has few paupers compared with Ireland, which is more fruitful and more easily cultivated. The causes of pauperisni lie in the character of the population, and the only preventive is the improvement of the people. The pauperism of England is to be attributed, in a great measure, to the reck- less and improvident habits of its laboring poor. But the greatest prudence, united with the greatest industry on the part of the poorer classes, will not always save them from want. This is frequently the ease in England, where wages are low Adrian and the Antonines. If he is the compared with the expenses of living, so that an ordinary laborer often cannot, in 'the period of his life when he can do the greatest amount of labor, save any thing against the time of decreptude or sickness; and the children of suffering parents must suffer with them. The question in regard to such is, By what means shall their present distress be relieved? The economists of the new school (as it is sometimes called), namely, that of Mr. Malthus, Mr. Ricardo, Mr. McCulloch, and others, say that they are to be abandoned to starvation. But a doctrine so abhorrent to our nature is only a hideous theory, which cannot enter into the laws sor habits of any people, until human nature shall be sunk into brutal hard-heart-The dictates of religion, conscience and compassion enjoin upon us to give relief; and the only questions practically discussed relate to the mode and de-

gree of the assistance to be afforded, and the measures which ought to be adoptedfor reclaiming such as bring their misery upon themselves by vice and idleness. The two great objects are-remedy of present suffering and prevention of future; and these two objects are very much blended, for it is a great rule so to administer succor as not to encourage idleness or vice. In the case of young subjects of relief, the greatest charity is that which is directed to the forming of good habits, and giving them instruction in useful arts. With older subjects there is very little hope of any great amelioration of charactor. But even with these, a regard to the influence upon their habits is constantly to be kept in view in administering to their present wants. One essential condition is, that they should be made to labor, and thus contribute, as far as possible, to their own support. How to employ them to advantage, is a very important inquiry, and no general rule can be prescribed. In some districts, they may be best employed in working on a large farm. Another method is, to let out their services to persons who will contract for their support. This mode should be practised with caution, and with proper provision for the humane treatment of the laborers. As to the sick and infirm, the rest of the community are bound to support . them, by a just assessment of the expenses. Charity should be so administered to the poor as not to make it preferable to the gaining a subsistence by individual efforts.

Pausanias; a Greek topographical writer, who flourished during the reigns of rhetorician or grammarian who is mentioned under this name, he was a native of Carsarea, in Cappadocia, and studied under the celebrated Herodes Atticus. He taught at Athens, and afterwards at Rome, where he died. His account of Greece, a kind of journal of his travels, in which he describes every thing remarkable—temples, theatres, tombs, statues, pictures, monuments of every sort, &c .- is a valuable work for the antiquarian. 'His style is sometimes careless, and * sometimes affectedly formed on more ancient writers; and the work is full of fables which are connected with the objects that he describes. For this reason, Scaliger called him Graculorum omnium mendacissimus; but the fullest confidence may be put in Pausanias where he speaks as. an eye-witness. His work has been edited by Kuhn (Leipsic, 1696, folio), Facius (Leipsic, 1794—1797, 4to.), Sibelis (Leipsic, 1822, 4 vols.): the latest edition is that of Bekker (Berlin, 1826). The French translation by Clavier and others (Paris, 1814—1821) contains the Greek text and notes, in seven volumes. We have an into new negotiations with the Persian

English translation by Taylor.

PAUSANIAS; a Lacedemonian general. son of Cleombrotus, and nephew of Leonidas. He was appointed guardian of his cousin Plistarchus, the son of Leonidas, during his minority; and in this capacity, was at the head of the government during the absence of the other king. When Mardonius invaded Greece with a large army of Persians, Pausanias marched against him as general of the allied forces of Greece, deceived his chemy by a feigned retreat, and totally defeated him in the battle of Platea (B. C. 479). He then advanced to Thebes, which had deserted the cause of Greece, compelled the inhabitants to surrender the leaders of the Persian party, and caused them to be executed. His moderation, which had been admired during the campaign against Mardonius, now gave way to arrogance and overbearing impetuosity. To himself alone he ascribed the victory at Platies, and offered a golden tripod in the temple of Apollo at Delphi, with an inscription representing himself as the sole conqueror. He became still more insupportable after having, at the head of the allied Greek fleet, delivered the Grecian cities, and, after a long struggle, Cyprus also, and, finally, Byzantium itself, the key of Asia Minor, from the Persian yoke. While Aristides and Cimon, who commanded under him, won the hearts of all by their affability, Pausanias abused the allies, and considered the Spartans as the ruling nation among the Greeks. length, he entered into secret negotiations with Xerxes, and conceived the design of making himself master of Greece. He restored to Xerxes, without ransom, many distinguished Persians, who had been taken prisoners at Byzantium, openly renounced the manners and customs of the Spartans, adopting Persian habits and the Persian costume, and carried things so far, that the disgust of the allies could no longer be suppressed. The Spartans summoned him home; but hardly was he acquitted in consideration of his rank and services, when he betook himself again to Byzantium, under the pretence of taking part in the campaign. Being compelled by the Athenians to leave the city, he went to Colonæ, in Troas, and entered into fresh negotiations with the enemies of · Greece. 48 VOL. IX.

charges against him, was again liberated, under promise to appear whenever be should be summoned. But he entered into new negotiations with the Persian king. To secure himself against detection, he had obtained from Artabazus a promise to put to death the beaters of his The suspicions of one Argilius, whom he sent on this errand, being awakened, he opened the letter intrusted to him, found his suspicions contirmed, and gave information of the fact to the ephori. In order to procure full proof, they directed Argilius to take refuge in the temple of Neptune, at Tanarus, as if fearing for his life. As soon as Pausanias heard of the circumstance, he hastened to meet him. They entered into a conversation, which disclosed to the ephori, who were concealed in the place, the guilt of Pausanias. The ephori now returned to Sparta, determined to punish him according to the rigor of the law. Pausanias, having been informed, on the way, of the fate which awaited him, took a refuge at the feet of Minerva Chalciceus. But his indignant mother brought the first stone to close the entrance of the temple. The people followed her example, and the unhappy prisoner, being thus walled up, died of hunger. He was buried before the temple, and the anger of the goddess was appeased by the erection of two bronze statues.

Parsimpro; a hill near Naples, with a large and beautiful grotto (la grotta di Pausilippo). This is a straight passage cut through the rock, from Naples to Puzzuoli, 80 or 90 feet high, from 24 to 30 wide, and about 1000 paces long. Through the deep night of this grotto, which is high and wide, but inaccessible to the rays of the sun, passes the daily travel of a very populous district. A powerful echo from the roof increases the rumbling noise of the passage. This cavern, of which so many fables were related in the time of Strabo, was probably bewn out before the time of the Romans, at tirst only as a quarry, but afterwards continued through the hill. Alfonso 1 (1442-1458) enlarged It was subsequently made broader and higher, paved, and provided with airholes. The whole rock is firm, and has never been shaken by carthquakes. the centre, there is a chapel of the Virgin Mary; over the grotto, are the remains of an aqueduct and of what is called Virgil's tomb. Since 1822, the Austrian troops have constructed a road over the Pausi-He was once more recalled lippo to Puzzuoli, by which the passage through the grotto is avoided. In the course of this work, a grotto was found at the summit of the Pausilippo, which is probably the crypta Pausilypona of the ancients, the name which is now given to what Seneca called the crypta Neapolitanu.

Pauw, Cornelius de, born at Amsterdam in 1739, died in 1709, canon at Xanten, in Cleves, was a writer of much learning and ingenuity, but led away by a love of theory and unfounded speculations. His Recurches philosophiques sur les Grees, sur les Américains, and sur les Egyptiens et les Chinois, were published together in 7 vols., 8vo., at Paris, in 1785

PAVEMENT OF THE STREETS. If this important invention is not of recent date, its general use is comparatively recent. No large European city, Rome only excepted, had paved streets till towards the twelfth or thirteenth century. More mention is made in the ancient authors of paved highways than streets, which Beckmann, in his History of Inventions, ascribes, however, to the simple circumstance that the latter were probably paved by the citizens, each taking the part before his own house, so that the government was not required to make provision for this purpose. Isiodore says that the Carthaginians were the first people who had paved streets, which were soon imitated by the Romans; but long before that time Semiramis paved highways, as her own vain-glorious inscription, preserved by Strabo, asserts. At Thebes the streets were under the care of telearchs, who provided for repairing and cleaning them. Epaminondas's being appointed to the office rendered it honorable and sought for, whilst before it had been contemmed, and for that very reason given to that great general. Jerusalem seems not to have been paved in the times of Agrippa, according to Josephus. When Rome was first paved is not exactly ascertained, though many antiquarians consider it to have been in the year of the city 578, according to a passage of Livy, which admits, however, of soveral explanations. The ediles at first had the superintendence of the streets; at a later period particular officers called curatores riarum. · Payements of lava, with elevated side walks, are found at Herculaneum and Pompeii. Of modern cities, Paris is generally mentioned as having the oldest pavement; but it is certain that Cordova, in Spain, was paved about 850 A. D. by Abderrahman II, who also brought water to the city in leaden pipes. Paris was not paved in the twelfth century, for Rigard, physician and historian of Philip II, tells us that the king, standing at his window, and disgusted with the dust and dir. thrown up by the vehicles, resolved to pave the street, for which orders were issued in 1184; and this is confirmed by several historians. It is certain that many streets of Paris were not paved even in 1641. All historians allow that London was not paved at the end of the eleventh century. If is not certain when it was first paved; probably the paving took place by degrees. Holborn was first paved in 1417, the great Smithtield market not until 1614.—The first pavement of modern cities was generally, though not always, very bad, as it is even now, in the generality of small places, as the traveller can testify who has been jolted through the small towns of the European continent. That the Romans knew what good pavement was, is proved by the still existing via triumphalis, beautifully paved with basalt. Of late, pavements have been much improved; stones have been squared so as better to fit each other, or the streets have been macadamized. In Germany, where conches often enter the large gateways of the houses, and on stone pavement shake the whole building, paving with square wooden blocks, cut from the knotty parts of a tree, and presenting the ends of the grain uppermost, has been adopted with great success. Lately iron pavement has been proposed in London: oyster shells have been tried as pavement in New Orleans. (For more information, see Beckmann's History of Inventions.)

PAVIA, (anciently Treinum) in the Lombardo-Venetian kingdom, lies on the Tesino, near its confluence with the Po; lat. 45° 10 N.; lon. 9° 9' E.; population 21,250. The most remarkable buildings are the palaces Mezzabarba, Bellisomi and Botta, and the new cathedral. The university is said to have been instituted by Charlemagne. In 1770, it received a new organization, and in 1817 was revived, with its 13 colleges. It has about 800 students, an observatory, anatomical theatre, &c. The citadel is built in the old style. Pavia was at one time the residence of the kings of Lombardy. In 1525, Francis I (q. v.) was made prisoner by the emperor Charles V at the battle of Pavia. The Carthusian monastery (La Certosa) here is the finest in Italy.

PAVILION, at Brighton, England; a building erected in 1784 for the then prince of Wales. It was a favorite residence of George IV, and its name some-

times occurs in connexion with important measures agitated there. (See Brighton.)
PAWN-Houses. (See Lombards.)

PAWTUCKET; a post-town, Bristol county, Massachusetts, four miles north-east of Providence, Rhode Island; population in 1830, 1458. It is finely situated on the falls of Pawtucket river, near the Blackstone canal, and has extensive and flourishing manufactures.

PAYS DE VAUD, WAADTLAND, OF WAADT: one of the cantons of the Swiss confederacy, which has the lake of Geneva on the S., France on the W., Neufchâtel on the N., and Friburg and Berne on the E.; square miles, 1181; population (1827), 178,880, of which 6000 were Germans and the rest French; Calvinists, 175,850. The capital is Lausanne. (q. v.) This canton is not only one of the largest and most populous of the confederacy, but, according to Simond, is the one in which the advantages of education are most generally enjoyed. Crimes are of very rare occurrence." The legislative body consists of 180 members, 9 of whom constitute the executive. Jus-tice is administered by justices of the peace, district courts, and the supreme court at Lausanne. The soil is fertile and well cultivated; the most important productions are orchard fruits and the wine grape; the Ryff wine and the vin de la Cite are celebrated.—The Vand formerly belonged to the dukes of Savoy, from whom it was conquered by Berne. In 1803, it was acknowledged as an independent canton. In December, 1830, the popular voice demanded a revision of the constitution; a committee was accordingly formed for this purpose, but its dispositions did not meet the public views, and a general rising took place. Eight thousand petitioners, without arms, assembled at Lausanne, but, on receiving assurances of reform, dispersed without committing violence. (See Switzerland.)

Pazzi, one of the richest and most distinguished families in the Florentine republic, is celebrated for its connexion with the conspiracy of 1478, of which it became the victim. Jealousy of the power of the Medici combined with the jealousy of a disappointed lover to inflame Francis Pazzi, the author of the conspiracy, against Julian of Medici, his rival, who had privately married Carnilla Cafarelli. Francis Pazzi, rash, haughty and vindictive, resolved to avenge this offence, and the humiliations of his family, by the destruction of the Medici. Bernard Bandini, who also hated the Medici, was his first

confidant. Aware that the increasing power of the Medici was viewed with dislike by the pope, Sixtus IV, they acquainted his son, Jerome Riario, the friend of Pazzi, of their design of assassinating Lorenzo and his brother Julian of Medica, and introducing a new form of government, and wished through him to gain the assistance of the pope. The latter promised his aid, and Francis Salviati, archbishop of Pisa, the enemy of the Florentines and of Lorenzo de' Medici, also joined them. James' Pazzi, uncle of Francis, and a peaceful and prudent citizen, was persuaded by Montesecco, the general of the pope, to take part in the conspiracy. While Charles Manfredi, count of Facinza, was sick, the conspirators, without exciting the suspicion of the Medici, collected a number of troops for their defence. They resolved to murder both the Medici at a festival. Their project was twice frastrated by the absence of Julian; and the 26th of April, 1478, the day in which religious service was to be celebrated in the church of Santa Reparata, was next fixed upon for the execution of their designs, The sound of the bell, at the moment the priest raised the host, was to be the signal; but as thertime approached, Moutesecco refused to pollute the sacred place. The work was now committed to Anthony of Volterra, and Stephen, a priest, two weak men. Lorenzo and a large number of people were already assembled in the church, but Julian was not present. Francis Pazzi and Bandini went and persuaded him to attend the mass. On the way to the charch they conversed with him in the most friendly manner, and Francis Pazzi several times embraced him, in order to ascertain that he was not clothed in armor. When they arrived at the church, they placed him between themselves, and Anthony of Volterra and Stephen stationed themselves by the side of Lorenzo. At the second sound of the bell, Francis Pazzi stabbed Julian with such violence as to wound himself. dini murdered Nori, the friend of Julian. Anthony and Stephen attacked Lorenzo, but only gave him a slight wound in the neck. He escaped into the sucristy. Francis and Bandini, who undertook to pursue him, were prevented. Many persons lost their lives in the crowd, and it was with difficulty that the cardinal was defended by the priests from the popular fury. Bandini fled. Francis, after an unsuccessful attempt to rouse the people to insurrection, taint from loss of blood

was forced to seturn home. Salviati and James Poggio at the head of about 100 Perugians, had proceeded to the palace to take possession of it; but Casar Petrucci, the gonfalonier, suspecting their designs, summoned the guards, and occupied the upper story. The Perugians were accidentally shut up in a hall which could not be opened from within, and the Florentines easily seized the archbishop and many of the conspirators. Some of them were killed on the spot; others were hanged from the windows, and afterwards thrown into the streets. The enraged populace seized Francis Pazzi in his house, dragged him naked through the streets, and hanged him, with 70 others, at the windows of the palace. James Pazzi, who was riding through the streets calling the people to arms and liberty, was stoned from the palace of the signoria, and, finding no adherents, fled to the Apennines, where he was recognised by a pensant, carried back to Florence, and hanged with Renatus Pazzi. The people took his body from the family tomb, and threw it into the fields. The corpse was again buried, and again disinterred by the people, and thrown into the Arno. Bandini had fled to Constantinople ; but he was surrendered by the sultan, Bajazet, and executed with Anthony of Volterra and Stephen, who had fled to a monastery. Napoleon Francesi, and William Pazzi, who was innocent, and was brother-in-law of Lorenzo, both escaped the rage of the populace. But notwithstanding the entreaties of his wife, Bianca, the latter was banished to his villa for life. The former disappeared, and was never more heard of: The rest of the family were imprisoned for life in the dungeons of Volterra. Montesecco was beheaded, and the cardinal was sent back by Lorenzo, with many apologies, to Rome.

PE; a Chinese word, indicating north; for instance, Pe-King (northern resi-

dence).

PEA (pisum sativum). The native country of the peals unknown, but it is commonly referred to the south of Europe. It has been cultivated from remote antiquity, and is now universally diffused, and forms one of the most valuable of culinary.plants. It belongs to the natural family leguminose. The root is annual; the, stem herbaceous, divided often from the eylindrical base into several weak branches, trailing upon the ground, unless support is afforded; the leaves are pinnate, provided at base with large stipules, and terminated with tendrils; the

flowers are axillary, usually disposed in clusters upon a common peduncle, and of . a whitish, or, sometimes, reddish or purple color; they are succeeded by oblong The varieand almost cylindrical pods. ties which have been produced by cultivation are very numerous, and differ in the color of their flowers, their number, and that of the seeds, the time of ripening, and in stature, some being low plants of a few inches, and others attaining the height of ten or twelve feet. Some varieties have pods destitute of the coriaccous inner film. which admits of their being boiled entire, and served up in the same manner as kidnev-beans. Peas are nutritious, and, especially when green, form an agreeable article of food to most persons. When ripe they are used for soup, and are prepared. by freeing them from the busks, and splitting them in mills constructed for the purpose. They are sometimes ground into flour, which is mixed with that from wheat by bakers, but the bread is rendered heavy and unwholesome. With rye-flour, however, in the proportion of one fourth, they are said to afford a palatable and nourishing bread. Green peas are among the earliest products of the garden, and a succession may be kept up throughout the season by sowing at different periods of time. second species, the pisum maritimum, grows wild on the sea-shore, both in Europe and the porthern parts of the b. States. At resembles in form the preceding, and has large reddish or purple flowers, disposed in racemes. The seeds are bitter and disagreeable, though it is said they have been collected for food in times of scarcity.

PEACE, JUSTICE OF THE. We have given an account of the justices of the peace in England and the U. States under the head of Justice of the Peace. The following is a short account of the French officers of the same name. They are, in many points, different from the former, though the national convention, in its famous deerce respecting the new organization of the judicial system (August 24, 1790), which, in its principal features, still exists, evidently contemplated a closer imitation of the English system. France, as is well known, was then divided into departments; these into districts (at a later period called arrondissements), and these into cantons, in order effectually to efface the ancient division into provinces, lordships, &c. In each canton was a justice of the peace, to be elected by the citizens, with some assistants (prud'hommes), for two years, in lieu of the former feudal courts.

His business consisted in the decision of cases where property was in dispute not above 100 livres in amount (up to 50 livres without appeal); in the settlement of disputes respecting possession and those relating to verbal injuries; in making compromises and directing guardianships. At a later period, the jurisdiction of these officers was made to comprise the lower offences against the police regulations. The justices of the peace remained elective until the restoration, though the consular constitution of the year VIII (December, 1799) extended the term of the office to three years; and, in 1802, it was extended to ten years. According to the Charle Constitutionnelle of 1814, the justices of the peace were appointed by the king for life. The average number of persons within the jurisdiction of a justice of the peace is 10,000. All processes in any way complicated (above 100 francs, all disputes respecting the genuineness of documents, inscriptions en faux) are to be brought before the tribunaux de première instance, from which an appeal lies to the cours d'appel. The salary of a French justice of the peace is small; his authority is not to be compared with that of the justices in England, yet the office is of great imporrance to the country .- See Biret's Recueil general et raisonné de la Jurisprudence et des Attributions des Justices de Paix de France (2 vols., Paris, 1819).-Justices of the peace were usually established by Napoleon where he erected new govern-

PEACE, PERPETUAL. St. Pierre was the tirst who proposed a formal plan for perpetual peace, which Rousseau afterwards made known. The almost verbal coincidence of St.Pierre's articles for his international league with the articles of the act of the Germanic confederation is very remarkable. (See Henry IV.) This subject has subsequently been brought forward by Kant, among others, in his treatise Zum cwigen Frieden (For Perpetual Peace). The general means proposed for producing perpetual peace were sometimes the balance of power, sometimes a universal monarchy, and sometimes a general international union, or league of states, adjusting all their disputes by amicable arbitration by means of a permanent congress, as the highest tribunal of the nations. But all these means are necessarily imperfect. idea of promoting the cause of permanent peace by societies expressly organized for that purpose, was agitated in this country before the late war with England; but it was not till after the close of the war that

the first peace society in the world was formed in New York, in August, 1815. In the subsequent year, a peace society was formed in London. In France, a society with similar views was formed in 1821, under the sanction of government, enumerating among its members men of high rank and character. The object of these societies is to effect the abolition of war by the diffusion of intelligence and knowledge; but their efforts, as yet, have been contined to the distribution of a fow tracts.

Peace, Relations (German, Religions-friede). There are two treaties of peace in German history bearing this name, both in the time of the reformation; one conchilded July 22, 1532, and called the religious peace of Nuremberg; the other concluded September 26, 1555, and called the religious peace of Augsburg. By the first, the emperor Charles V promised to convoke a great council to settle all religious differences, until which all hostilities should be suspended; and, if a council should not be convoked, a new compromise was to be made between the Protestants and Catholies. But, respecting the claims of the Protestants, particularly as to the free and public exercise of their religion, the imperial commissioners were . unwilling to promise any thing definite. The Protestants placed themselves, by this peace, in a disadvantageous position. The second peace produced something like a sertlement between the two religious parties, after a long period of war and suffering. Ferdinand declared, in the name of his brother the emperor, at Augsburg, that little good could be expected from a national council, and that it was much better to think of establishing peace in the empire without attempting to reconcile jarring religious opinions. Peace was finally concluded on the terms that no member of the empire should be attacked on account of his religion, but should be left in quiet possession of his land, subjects, property, mode of worship, &c.; religious disputes should be settled only by amicable means; people should be allowed to change their residence on account of religion, &c. Two points only furnished subjects of an obstinute dispute for six months. The Protestants demanded that the ecclesiastical members of the empire, the bishops, abbots, &c., should be at liberty to become Protestants, which the Catholics would agree to only on condition that every clergyman becoming a Protestant should, ipso jure it facto, lose his office and authority; but the Protes-

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tants demanded that the converted bishops should continue in authority over wealthy countries. The two parties could not agree, and the emperor at last decided, as was customary. This point is called the reservatum ecclesiasticum. 'The emperor decided that every bishop, prelate, &c., becoming Protestant, should lose his office and income, but without injury to his honor and dignity. The second point was, whether Protestants under Catholic govcrument should be allowed to enjoy the free exercise of their religion. Ferdinand decided that they should until a final religious compromise; and thus peace was concluded without the necessary basis, free exercise of religion. An opening was thus left for many bloody wars.

PEACE RIVER. (See Muckenzie's Riv-

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This is, perhaps, the most ex-PEACH. . quisite of the fruits of temperate climates, and, if not caten to excess, one of the The tree is of midmost wholesome. dling stature, but varies, in this respect, according to soil and climate. It belongs to the natural family rosaccia. The leaves are alternate, simple, lanceolate, acute, and finely serrated. The flowers appear before the leaves, are very beautiful, and difhise an agrecable odor. The finit is a large downy drupe, containing a stone which is deeply furrowed and rough externally, which character distinguishes it from both the almoud and apricot. The peach tree is known to botanists under the name of amygdalus Persica, or, more recently, Persica vulgaris, and is supposed to have been introduced into Europe from Persia. It was first introduced into England about the year 1562. The varieties are very numerous, differing in size, flavor and time of ripening; but they are principally of two sorts-the free-stones, in which the flesh may be easily separated from the stone, and the cling-stones, in which it is adherent. The nectarine is by some considered a mere variety of the peach, differing only in its smooth skin; and this fruit is likewise divided into cling and free-stones. 'The peach is reproduced by planting the stones; but it is usual, when the stocks have attained a certain size, to graft upon them any required variety. European writers give forty years as the duration of the peachtree, when well pruned and carefully managed; but, in the U. States, our peach orchards are ravaged by a sort of moth (the agermentiosa of Say), which lays its eggs near the roots of the trees, when the young larvæ, on being hatched, penetrate

the wood in various directions. It is recommended, when the fruit approaches maturity, to strip off the surrounding leaves, in order that it may be fully exposed to

the rays of the sun.

Peacock (paro, Lin., &c.); bill naked at the base, convex above, thickened, bent down towards the tip; nostrils open; cheeks partially denuded; feathers of the rump elongated, broad, capable of being expanded like a fan, and occilated; tail wedge-shaped, consisting of eighteen feathers; feet furnished with four toes; the tarsi with a conical spur; the head crested .- P. cristatus, Lin., &c.; crested, or common peacock. To recite the numerous details of the markings of this splendid bird would require a long description, which, after all, would convey but a faint idea of the original. There are. however, few of our readers who are not sufficiently familiar with the rich attire of the living specimen to dispense with a minute enumeration of its changeable Like other domesticated birds, it exhibits several varieties. The ordinary. length of the peacock, from the tip of the bill to that of the full-grown tail, is about four feet. The female is rather less; and her train is not only very short, but destitute of those beauties which ornament the male; her crest, too, is shorter, and her whole plumage partakes of a cincreous hue; her throat and neck are green, and the spots on the side of the head are larger than those of the male. The females of this species, however, like those of some other birds, have sometimes been known, when past breeding, to assume the male attire. In a state of nature, the pea-hen breeds once a year, and lays, it is alleged, from twenty-five to thirty eggs, of a whitish bue, speckled with dusky. In colder climates, and when domesticated, the number of eggs seldom exceeds five or six. and the hen sits from twenty-five to thirty days, according to the temperature of the country and season. When pleased or delighted, the cock crects his tail, unfolds his feathers, and frequently turns slowly round, as if to catch the sunbeams in every direction, accompanying this movement with a hollow murinuring. er times, his cry is very disagrecable, and often repeated, especially before rain. Ev-'ery year he sheds his plumes; and courts the most obscure retreats till the returning spring renews his lustre. The young ac-quire the perfect brilliancy of their plumage in their third year; but, in cold climates, they require attention in rearing, and should be fed on grass, meal, cheese,

crumbs of bread, and insects, until they are six or seven months old, when they will eat wheat and various sorts of grain, like other gallinaceous birds; but the peacock is, in this respect, extremely capri-cious, and there is hardly any kind of food which it will not, at times, covet and parsue. According to Aristotle, it lives about twenty-five years; but Willoughby and others allege that it is capable of existing for near a century. When full grown, it is not readily injured by cold. Though long naturalized in Europe, it is of Eastern origin, occurring in the greatest profusion in the neighborhood of the Ganges, and in the extensive plains of India, particularly in Guzerat, Cambay, the coast of Malabar, the kingdom of Siam, and the island of Java. As early as the days of Solomon, they were imported into Judea by the fleets which that monarch equipped on the Red sea. From India they were brought into Asia Minor, and subsequently into the isle of Samos, where they were formerly much multiplied, and consecrated to Juno, but from which they have now wholly disappeared. In Greece, they still brought a high price in the time of Pericles. They were introduced into Rome towards the decline of the republic; and the orator Hortensius was, according to Pliny, the first who had them presented at table, at a feast which he gave to the college of augurs. The emperors took a pride in collecting large dishes of the heads or brains of peacocks, which seem to have had nothing to recommend them but the enormous expense at which they were provided. In modern times, the young birds only are reckoned fit for the table. The Europeans have introduced them into Africa and America .-- P. chinquis, Tem.; pavo bicalcaratus, and pu-ro Thibetanus, Lin.; peacock pheasant, iris peacock, Thibet peacock. These singular birds, which are rather larger than a pheasant, and highly elegant and beautiful, inhabit China and the mountains which separate Hindoostan from Thibet. According to Sonnerat, they likewise occur in Malacca. The most remarkable circuristance in their natural history is that of the tarsi being armed with several spurs, which vary in number from two to six, and frequently the same bird has a different number on each leg. Another curious fact is that the tail is composed of two distinct ranges of long feathers, the undermost being the true tail. These feathers are capable of being erected, and displayed like a fan when the bird is agitated, but at other times they remain in a

horizontal position. The plumage of the female is less brilliant than that of the male, and the tail shorter. In the natural state, this species is not very wild, and it readily becomes accustomed to confinement, and propagates with facility.

PEAK; a name given to the upper corner of those sails which are extended by a gaff, or by a yard which crosses the mast obliquely, as the mizzen-yard of a ship, the main-yard of a bylander, &c. The upper extremity of these yards and gaffs is also denominated the

PEAK CAVERN, in Derbyshire. (See Care, vol. iii, p. 15.)

Pears of Ottes, in Bedford county, Virginia, thirty miles west by north from Lynchburg, lat. 37° 33′ N., are summits of the Blue Ridge, and are considered the highest hills in Virginia. The altitude of the eastern peak is stated at 3104 feet; miother statement makes it 3953 feet. The

summits are of granite.

PEALE, Charles Willson, the founder of the Philadelphia museum, was born of English parents, at Chestertown, Maryland, in 1741; was apprenticed to a saddler at Annapolis, and married at an early He successively carried on the trades of saddler, harness-maker, silversmith, watch-maker and carver; and afterwards, as a recreation from his sedentary practice of portrait-painting, became a sportsman, naturalist and preserver of animals; made himself a violin and guitar; invented and executed a variety of machines; and was the first dentist in this country that made sets of enamel teeth. At the age of twenty-six, he was first excited to become a painter by the desire of surpassing the wretched things which he happened to meet with. At this time, Hesselius, a portrait-painter from the school of sir Godfrey Kueller, was living near Annapolis. Mr. Peale, selecting the handsomest saddle his shop afforded, as a present to the artist, introduced himself, and solicited the favor of seeing, for the first time, the mysterious operations of painting. Mr. Hesselius gave him essential instruction, and heafterwards received similar services from Mr. Copley, on a visit to Boston. Soon after, by the aid of his friends, he went to England, and studied, during the years 1770 and 1771, in the royal academy at London, under the direction of Mr. West. The writer of this article was informed by colonel Trumbull that, one day when he was in Mr. West's painting room, some hammering arrested his attention. "Oh," said Mr.

West, "that is only that ingenious young man, Mr. Peale, repairing some of my bells or locks, according to custom." This custom, much to the comfort and amusement of many a host, he continued all through life, whenever he was on a visit in the country, either for business or On his return to America, he picasure. removed to Baltimore, and afterwards to Philadelphia, where he opened a picturegallery. For about fifteen years, he was the only portrait-painter in North America; and persons came to him to be painted even from Canada and the West Indies. During the revolutionary war, he raised a company, was often employed in confidential services, and was engaged in the battles of Trenton and Germantown. 1777, he was elected a representative of · Philadelphia in the state legislature, where he chiefly interested himself in the law for the abolition of slavery. During the revolutionary contest, he had painted the portraits of many distinguished officers, some of whom were afterwards killed. collection constituted the chief interest of his gallery, and was, from time to time, extended, and afterwards made to comprise the portraits of men eminent in the different walks of life. Some large bones of the mainmoth, found in Kentucky, and brought to him to be drawn, laid the foundation of his museum, when the name of museum was scarcely known even to our travellers, and Europe possessed none of great note but the celebrated Aldobrandine collection at Florence. The increasing income from his museum at length enabled Mr. Peale to procure almost an entire skeleton of the mammoth, at an expense of 5000 dollars. A large quantity of the bones of an individual of this species was discovered in Ulster county, New York, which Mr. Peale purchased, together with the right of digging for the remainder in a swampy marl pit, which was obtained after very great exertions. Natural history, as yet, formed no part of the education of our youth, and Mr. Peale was the first to prepare and deliver a course of lectures on this interesting and now popular subject, which he rendered attractive to a respectable class of ladies. and gentlemen by domonstrations with the real subjects, taken out of the museum. The museum has at length grown to an extent which justifies a comparison with the most celebrated establishments in Europe. He was foremost in the early attempts to establish an academy of the fine arts. When the Pennsylvania academy of the fine arts was founded, he zealously

cooperated for many years, and lived to contribute to seventeen annual exhibitions. After a life of extraordinary exertion and temperance, he died, in 1827, at the age

of eighty-five.

PEAR: the fruit of the purus domestica, a tree growing wild in many parts of Europe, and now cultivated in all temperate climates. The pear tree belongs to the rosaceae, and, by some authors, is placed in a different genus from the apple, from having flexible sides to the cells which contain the seeds, and from the turbinated form of the fruit. It is the largest of the genus, and reaches the height of forty feet, with the trunk two feet or more in diameter. The leaves are simple, alternate, oval, and finely serrated. The flowers are white, about an inch in diameter, and are disposed in terminal or lateral corymbs. The fruit, in a wild state, is regularly turbinated, about an inch either way, and to the taste is austere until perfectly ripe, when it becomes soft, juicy, and not disagreeable. In the cultivated plant, the fruit varies exceedingly in size, color, taste, and time of ripening. The culture of the pear is very ancient, and several varieties were known to the Greeks and Romans. At the present day, more than two hundred, fit for the table, are enumerated, and constant accessions are made every year; for the seeds never reproduce the same variety without more or less modification. These varieties are perpetuated only by grafting; they differ in color, being either greenish, yellowish, grayish, or reddish; in the consistence of the pulp, dry and firm, or melting and watery; and in taste, insipid, austere, acid or sugary. A constant succession may be had from the beginning of summer, throughout the winter. Pears are chiefly used in desserts, and are generally considered much superior to apples; some varieties are stowed with sugar, baked, or preserved in sirup. France and the north of Italy are celebrated for the perfection to which they have carried the culture of this fruit. Even in districts where it grows wild, the tree is very liable to injury from frosts, which greatly diminish its bearing. There are, besides, numerous varieties of pears, cultivated solely for the purpose of making perry, a liquor analogous to cider, and prepared nearly in the same man-This is less wholesome, and in general is less esteemed, than cider, though often very agreeable; indeed, many of the dealers in Champaigne wine are said to use perry to a great extent in the adulteration of it; and really good perry is little

inferior to it in taste or quality. The wood is fine-grained, of a yellowish color, and susceptible of a brilliant polish: it is not subject to the attacks of insects, and receives a black dye remarkably well, when it so much resembles ebony, that it can only be detected by the difference in specific gravity. In the early ages of Greece, this wood was employed in statuary; now it is used for musical instruments, the handles of carpenter's tools, and a great variety of mechanical purposes; it is, besides, excellent fucl. Nine other species of pyrus, as the genus is above restricted, are known; all natives of the temperate parts of 'he eastern continent.

Pearl. Pearls are produced by a testaceous fish of the oyster kind, which lives in the waters of the East and West Indies, and in other seas in warm latitudes. They are found in some parts of the globe in clusters of a great number, on rocks in the depths of the sea. Such places are called pearl-banks, of which the most famous are near the coast of Ceylon, and that of Japan, and in the Persian gulf, near the island of Bahreim or Bahrein. Near the coasts of Java, Sumatra, &c., the pearl is also found. The finest and most costly pearls are the Oriental. Some consider scarls to be unfructified eggs, others a morbid concretion or calculus, produced by the endeavor of the animal in the shell to till up holes in the shell: others consider pearls as mere concretions of the juice of which the shell has been formed, and with which the animal annually augments To collect these shells is the business of divers, brought up to this most dangerous occupation from early youth. They descend from their boat with a rope fastened round their body, and a stone of 20 or 30 pounds weight attached to the foot to sink them. Generally they have to descend from 8 to 12 fathoms, before they reach the shells. Their nostrils and ears are stopped up with cotton; to the arm a sponge, dipped in oil, is fastened, which the diver now and then brings to his mouth, in order to draw breath without swallowing water. Every diver haskbesides, a knife, to loosen the shells, and a little net or basket, to collect them. When he has filled this, or is unable to stay any longer under water, he unlooses the stone quickly, shakes the line, and is drawn up by his companions. These divers are often destroyed by sharks; their health always suffers by this occupation. Other divers use the diving bell. (q. v.) The shells thus obtained are put into vessels,

where they remain till the body of the animal putretics, when they mostly open of themselves. Those which contain any pearls, contain generally from eight to twelve. After being dried, they are passed through nine sieves of different sizes. The worth of a pearl is in proportion to its magnitude, round form, fine polish, and clear Justre. The largest are of the size of a small walnut; but these are very rare. Those of the size of a cherry are found more frequently, yet still very rarely. Pearls are round, pear-tormed, onion-formed, and ir-regularly shaped. The small ones, sold by weight, are called ounce pearls, the smallest, seed pearls: these are converted into powder. In Europe, pearls of "white water" are the most sought for; the Indians and Arabians prefer those of "yellow water." Some have a lead color, some incline to black, some are totally black. Pearls are found in the Elster, a river in the Voigtland, in the kingdom of Saxony, from its origin down to the small town Elsterberg, as well as in the rivulets which fall into the Elster. Since 1621, a pearl fishery has been established there, of course for the benefit of the sovereign. Also in the river Watawa, in Bohemia, and in the Moldau river, from Krumau to Frauenberg, pearls are found, sometimes of great beauty, and difficult to be distinguished from the Oriental yearl. The fishery there is the property of the owner of the land. There are also pearl fisheries on the coasts of Scotland. Even in antiquity pearls were an object of haxury. A pearl which Pliny valued at about \$375,000 of our present money. Cleopatra is said to have dissolved at a banquet, and drank off to Antony's health. Another, called la peregrina, was given to Philip II of Spain. It was oval, and of the size of a pigeon's egg, and was valued at 80,000 ducats. Pearls were formerly used in medicine; but their medical operation is not different from that of any other calcarcous earth. Linneus discovered how to produce artificial pearls from the common river muscle; but the process has never been published, nor has it ever come into use. The shells of the pearl oyster are the substance called mother of pearl. (See Nacre.) There is a very curious passage in Philostratus (Vita Apollon.), in which Apollonius the philosopher relates that the inhabitants of the shores of the Red sea, after having calmed the sea by means of oil, dove after the shellfish, enticed them, by means of some bait, to open their shells, and, having pricked the animals with a sharp-pointed instrument,

in small holes made in an iron vessel, in which it hardened into real pearls. The Chinese at present cause a certain kind of muscles to form pearls. In the beginning of summer, when the muscles repair to the surface of the water, and open their shells, five or six small beads made of mother of pearl, and strung on a thread, are thrown into each of them. At the end of the year, when the muscles are drawn up and opened, the beads are found covcred with a pearly crust, in such a manner that they have a perfect resemblance to real pearls. The truth of this, says Beckmann, in his History of Inventions, (See vol. ii of the cannot be doubted. English translation of Beckmann.) In the same work curious facts respecting the discovery of Linnæus, and other points connected with this subject, are found under the head Artificial Pearls.

PEARL ASH. The common name for carbonate of potash. (See Potassium.)

Pearl, Mother of. (Sec Nucre.) PEARL POWDER. (See Bismuth, vol. ii, p. 117.)

PEARLSTONE. (See Pitchstone.)

PEASANTS' WAR. A war of the German peasantry in Suabia and Franconia, afterwards also in Saxony and Thuringia. against the oppressive taxes and services under which they languished. As early as the end of the 15th and the beginning of the 16th centuries, opposition was made to the bond-services in some places, and to the insupportable exactions of the nobility in others. The reformation in religion, which now excited universal attention, gave men the example of examining established usages, and a new desire for a better condition arose among the oppressed peasantry. The clergy and the nobility were deaf to their call; but the successful struggle for liberty in Switzerland gave them hope. The peasants of Alsace revolted, and, in 1513 and 1514, those of Würtemberg. John Böhme, a young man of the territory of Würzburg, declared that the Virgin had announced to him, that liberty and equality were now to be introduced among men; the earth was to be equally free for the use of all. 40,000 men are said to have collected around him, from Franconia, Suabia, Bavaria, and the Rhine. He directed his followers to appear armed on a certain evening, without their wives and children. He was, however, arrested by money by public officers is severely punthe bishop of Würzburg. But 46,000 ished. Peculation and treason were, by men marched to his rescue against the the French charter of 1814, the only

received the liquor that flowed from them castle of Würzburg. They were routed, and Böhme, with several others, executed. In 1525, the peasants rose again, and sent 12 articles to Würzburg, in which they maintained the justice of their They principally wished, 1. complaints. to elect their own curates; 2, that the tithes should be appropriated solely to the maintenance of their curates; 3. that feudal services should be abolished; 4. that hunting and fishing should no longer be the exclusive privilege of princes and nobles; 5, that the feudal services should be more accurately determined, and the lord should not arbitrarily demand service from his vassal, &c .- The bishop promised to fulfil these demands; but the peasantry, who suspected his intentions, took up arms, and even the citizens, whom he called to his assistance, took their part. After Easter, in 1525, the peasantry in arms marched against Würzburg; the bishop fled to Heidelberg. They took Würzburg, and proceeded to burn and ravage the country around, but were beaten near Königshofen and Sulzdorf; 9000 peasants were killed, or taken prisoners, and after-wards put to death. Würzburg was compelled to surrender to the conquerors, and the bishop returned there June 8, 1525. This war was not suppressed in Franconia and Suabia till after it had cost the lives of more than 50,000 peasants, without their attaining their aim—the diminution of their burthens-which, on the contrary, were in some places increased. The troubles in Franconia and Suabia were succeeded by the peasants' war in Saxony and Thuringia, which was principally excited by Thomas Münzer. (q. v.) (See also the History of the Peasants' War, by Sartorius.) PEAT. (See Fuel.)

Peccary. (See Appendix, end of this volume.)

PECULATION; the term, in the Roman law, for the embezzlement of public money belonging either to the government or to communities. Under peculation, also, was comprised the adulteration of gold, silver, or any metal belonging to government. Connected with it, by a law of the dictator, Cæsar, were the crimen de residuis (if a person had received public money for a certain purpose, and did not apply it for the same), and the sacrilegium (the theft or misappropriation of money or other things sacred to a god). In most governments, the embezzlement of public

erimes for which a minister was impeachable. (For further information, see the

article Embezzlement.

PECULIUM. The Roman slave, with every thing belonging to him, was, at first, the property of his master; but at a later period, a slave was permitted to have a property in a portion of the proceeds of his labor, as an incentive to diligence. This was styled his peculium; and masters were in the habit of making agreements with their slaves, who exercised some art or trade, that, if they gained a certain sum, they should be allowed to purchase their freedom with it; and such contracts were supported by law. The property of children who were still under the power of their father, was also called peculium; and in this, too, the earlier severity of the Roman law gradually gave place to milder provisions. Whatever the children received from their father (peculium profectitium) was the father's property, and might be at any time resumed by him; but the children had the use and management of What the children received from others, as presents, &c. (peculium adventitium), was, in a peculiar sense, their own; but the father had the disposition and use of it, unless an express condition had been made to the contrary (peculium adventitium irregulare). Every thing was free from this jurisdiction of the father which the son obtained in war or for warlike uses (peculium castrense), or in the service of the state (peculium quasi castrense).

PEDAGOGUE, with the Romans and Greeks; a slave, who carried the children of his master to school. Since slaves and freedmen often made attainments in science, they were frequently used as tutors; and the Greek word pedagogue thus came, at a later period, to signify a teacher of children. In English, the idea of pedantry is generally connected with it; but the Germans use the word for any man who studies and practises scientifically the education of the young. There is no corresponding word in English, the words instructer, or teacher, which are commonly used, not implying necessarily that he who teaches is scientifically trained. By pedagogics the Germans designate the science of education so much cultivated by them. This was first treated as a separate branch by the Greeks and Romans, among whom Plato, Aristotle, Xenophon, Plutarch and Quintilian became the teachers of future instructers. In the middle ages, school instruction was confined to the convents, to which all remnarits of civilization had fled.

The science of education after that made but slow advances, until the reformation broke down so many of the obstacles to human progress. The Germans, English and French have, of late, contributed nost to the advancement of this science.

PEDAL HARP. (See Harp.)

PEDALS; the keys played by the feet (hence the name), by which the deepest bass pipes of an organ are put in motion. They generally do not much exceed an octave. (See Organ.) Long since the pedal was used under a harpsichord, and lately it has been employed to strengthen the tones of the piano. In the case of the harp, the pedal serves to elevate the notes half a tone.

PEDEE; two rivers of South Carolina, the larger called the Great Pedee, and the smaller the Little Pedee. The Great Pedee rises in South Carolina, where it is called the Yadkin, and runs south-southeast into Winyaw bay, near Georgetown, and communicates with the Atlantic twelve miles below Georgetown. It is navigable for boats of sixty or seventy tons about 200 miles. The Little Pedee rises in North Carolina, and unites with the Great Pedee thirty-two miles above its mouth.

Pedell (Low Latin bedellus, from the Saxon bidele); the German name for certain inferior executive officers, now only used for such as are attached to German universities. The origin of the English word beadle is the same. The pedell is constantly at war with the students, and is therefore quite a classical person in the reminiscences of German college life.

PEDESTAL. (See Architecture, vol. i, p. 338.)

PEDIMENT. (See Architecture, vol. i, p. 338.)

PEDOBAPTISTS. (See Baptists.) · Pedraza, Manuel Gomez, ex-president of the Mexican republic, after having tak en part in the war of independence, and served under Iturbide (without, however, approving his measures), was, in 1825, appointed secretary of war by president Vit-General Pedraza rendered the greatest services in this department by the zeal and ability with which he carried into execution the measures adopted by the congress for the organization of the militia, and the economy which he introduced into the expenditures of that branch of the government. The licentious and turbulent soldiery were reduced to rigid discipline, and the troops of the line were well clothed and regularly paid, and kept in strict subjection, to the civil government. The term of

Vittoria's presidency was to expire in April, 1829. 'The election of his successor was, by the constitution, fixed for the September preceding. Mexico, as is well known, was then divided into two parties, in a high state of excitement-the Yorkinos and Escoceses. (See Mexico.) General Guerrero was the candidate supported by the former, and general Pedraza by the latter. After an arduous contest, a portion of the inore moderate Yorkinos having given their votes to the Escoceses candidate, he was elected by a majority Of the vioof two votes over his rival. lent manner in which this election was anmilled, and general Guerrero placed in the presidency, we have given an account in the article Merico. General Pedraza was allowed to retire from the country, and, in March, 1829, arrived in England, whence he went to the continent. He soon after returned to America. See his Manifiesto, o sea Reseña de su Vida publica (New Orleans, 1831).

Pedro I, Antonio José d'Alcantara, dom, ex-conperor of Brazil, son of John VI (q. v.), king of Portugal, and elder brother of dom Miguel (q. v.), actual king of Portugal, was born at Lisbon, October 12, 1798, and, in 1808, was taken, with the rest of the royal family, to Brazil. The character of dom Pedro is thus drawn in a contemporary publication :- "In other respects, as well as in this particular (the grant of a constitution to Portugal), his measures indicate that he is no ordinary Tyrunt as he is, it would seem that, in establishing his monarchy in the new world, he ceased to partake of the incapacity which marks so many of the royal families of Europe. The blood of Bra-ganza is regenerated on American soil. Petro is reputed to be conversant with science and the arts, more than is becoming in a legitimate prince. He is dissolute in his morals, it is true, and cruel in his temper; but, on the other hand, he is brave, and carcless of danger, and zealously watches, in person, over the concerns of his army and navy, with an energy deserving a better cause. Highly gifted in personal appearance, he adds to it an enterprise of action, vigor of intellect, and robustness of constitution, which well qualify him for the high part which he sustains in the political drama of South America." At an early age, he conceived a strong predilection for music, for which he showed a decided talent. He not only learned to play on a variety of instruments, but composed much of the music for his father's chapel, and

the most popular Brazilian songs. On the return of his father to Portugal, in 1821, dom Pedro remained in Brazil, as princeregent; but, in the next year, Bruzil declared itself independent, and the prince assumed the title of emperor. The history of this revolution, and of the reign of Pedro, will be found in the articles Brazil, and Banda Oriental. His imperial title." was acknowledged, in 1825, by John VI, who, dying in 1826, also left him the crown of Portugal. The emperor, however, after granting a constitution to Portugal, resigned the crown to his daughter doña Maria (born in 1819), and appointed his sister regent of Portugal. (See Miguel, and Portugal.) Pedro had married, in 1817, Leopoldine, arch-duchess of Austria, daughter of the emperor Francis I, by whom he had five children, among whom were the princess doña Maria and dom Pedro II, present emperor of Brazil (born 1825). She died in 1826, a reputed victim of his attachment for the marchioness of Santos, to whom, also, it is said, was owing a change of ministry which. took place at about that time. His second. wife (whom he married in 1829) was Amelia, princess of Leuchtenberg (born 1812). After the close of the war for the Banda Oriental (1828), the attention of the emperor was principally drawn to the settlement of Portugal, and to the domestic concerns of the empire, the finances of which were in a very embarrassed condi-The elements of democracy were largely mixed up with imperial principles. The gold and silver of the country had entirely vanished, and there was no currency but paper, which would not circulate beyond the capital, and large pieces of copper, which bore a discount of forty per cent.; and the people were in a high state of excitement lest the extinction of the constitution in Portugal was but a prelude to a similar event in Brazil. These and other circumstances grad-ually alienated the public mind, and, in April, 1830, the nation had become divided into the constitutionalists or republicans, who were Brazilians, and absolutists, who were Portuguese. At attempt which was made to induce the troops to declare the emperor absolute, failed, and he now, in appearance, embraced the constitutional party. In March, 1831, while on a tour in the mining districts, dom Pedro made use of language which offended and alarmed the liberal party, and on his return to Rio, there were manifestations. of the music for his father's chapel, and of popular excitement, in which the troops has also written and set to music one of joined. The rigor which he used on this

occasion, and his subsequent weelllason attainments. In 1807, he represented the of conduct, served at orde to thin his borough of Tamworth in performent; in 1810, was appointed secretic of state for tion, and revolutionary programments were the disaffect. 1810, was appointed secretic of state for tion, and revolutionary programments were highly during the administration of the whom performs were killed in the attempts and in 1822 succeeded lord Sidnight (see a change of ministry was announced, the nature of the home ties. a change of ministry was anniquiced, the partment. The pullical principles, predictions and prejudices of the new secretatement of the old ministers. Dometary were in such perfect unison with Pedro refused to yield his pregentive of those of his predecessor, that no change thoseing his own advisors; the troops took place in the administration of the dechoosing his own advisers; the troops took place in the administration of the de-joined in the insurfection, and the next partment, in which he retained dil the morning the emporer bidicated in favor of appointment of Canhe retained dil the his infant son don Pedro II, and embarked, miership, in 1827. Mr. Ped was one of on board an English ship of wir. The deputies appointed a regency, and the heave emporer was proclaimed. He is new emporer was proclaimed. He is nearly beloved by the Brazilians, because he was born in the country, and on accountry the love and respect entermined for the memory of his mother. The calimet was organized. Lord Melbourne is principal causes of the revolution are his successor. It is unnecessary to say stated, in a pamphlet entitled Resumo Hist. that sir Robert is what is called, in the stated, in a pamphlet entitled Resumo Hist.

di Revolução; to have been the incapacity.

English party language, "a disciple of of the ministers, the English loan and its? Pitt," a defender of high tory principles. dilapidations, the war of the south, and Long considered the unyielding advacate the imbecility of the commanders, the with the light church party by his concessurary and immorality of the court. The exemperor arrived in France in June, corporation and test acts (1828), and in and has since been engaged in plans for February, 1829, resigned the representation of the throne of Portugal. (See Portugal, See Portugal) He carried with him a large, uses feighthe relief of the Roman Catherroperty in diamonds and jewels, and he property in diamonds and jewels, and he lica. "The political consistency of Mr. is also the owner of some valuable estates "Peel," says a friendly writer in 1828, "as in Brazil. (See Walsh's work on Brazil, far as the thing itself can exist in a state free London, 1830.)

PEED, sir Robert, is the son of sir R. Peel, a manufacturer, of immense wealth, who raised Tamworth in Staffordshire, its steady opponent, and his opposition, which had fallen into decay, to a flourish-conscientious from the outset, has been as its state, by the effection of extensive cot-imiform and the immediately as it has the works. The number of persons en-been rigorous and ardent." The reform ployed in his manufactories was not less bill has met with the same decided, and, ployed in his manufactories was not less than 15,000, and he paid upwards of forty thousand pounds annually to the excise. Robert. In his parliamentary, career, he fire on printed goods alone. He be has been distinguished as a ready and interesting proprietor of several estates of gone genious speaker, and a practical, intelliging what he was a frequent speaker of commons. He deserves great credit comprescial and manufacturing stablets, for what has been done under his auspices, received a harmonic or light and died in the simplify and condense the criminal law appring. The present at Robert, his click. Print (from parcs, in French point) has son, was born in 1788, ethicated an Mine general, signifies en equal paic of the row, and in 1890 was cateful altromagnotes, many rank and station. In this sense by the common law of Engineers of the inclination of their contraction of the inclination of their contraction of the common law of Engineers and the common law of Engineers of the inclination of their contraction of the common law of Engineers and contract of the common law of Engineers.

lington's cabinet, and again retired, in December, 1830, when the present whigh cabinet was organized. Lord Melbourne is the different fixes which the Catholic question has met with, he has continued,

PEER.

France, it signifies those nobles who have a seat in the upper house. In the article Great Britain, division Constitution, we' have spoken of the power of the house of peers of England. In the article Parliament, we have touched upon the forms of transacting business in the house of lords. In the article Legislature, Houses of, additional remarks ou this house may be found. We shall here say a few words on the history and privileges of the peerage.-The dignity and privileges of peers (pares curiæ, pares regni) originated with the growth of the feudal sys-The members of communities in ancient times, the companions of the Herzoge (dukes), the assemblies of the chief men among the people (the Wittenagemote of the Anglo-Saxons, and the compus Martius of the Franks), are not the same as the peers of later times. But in the feudal system, the principle was develcoped, that every association should take care of its own affairs, including the judicial decision of disputes among themselves and with their superiors; and it became an obliggion as well as a privilege of the vassal to appear at the court of the immediate 1 rd, on days of state and of the administration of justice. These were the pares curice; and the institution was extended from the court of the king to the principalities and lordships of the spiritual and secular barons. In France, at the time of the revolution by which Hugh Capet ascended the .; throne in 987, there were but seven secular princes immediate vassals of the crown—the dukes of France, Burgundy, Aguitaine and Normandy, and the counts of Flanders, Toulouse and Champagne. When the duke of France became king, there remained but six, to whom were added the archbishop of Rheins as spiritual primate of France, and the bishop of Laon, with the title of duke, those of · Beauvais, Noyon and Chalons, with that of count, and at a later period, under Louis VII, also the bishop of Langres, because their dioceses were situated within the immediate domains of the crown. This ancient peerage did not exist long, and the members were rather titular dignitaries than active instruments in the administration of the realm. The ancient principalities of peers were, by degrees united with the crown, only the spiritual lords maintained their titles. However, the immediate vassals of the principalities, of the king as former duke of France, of the dukes of Guicane, Normandy, Britta-

signifies a nobleman in England; in' ny, and the prince counts, continued to appear on days of state and of the administration of justice; and when standing courts (parliaments, q. v.) grew out of these. they remined their, seats, until they were gradually displaced by the preponderunce of the professional members. The ancient peerage, however, has several times acted as a judicial tribunal in the case of the trial of princes of the realm; for instance, when king John of England, in 1200, was cited to appear on account of the murder of his nephew, Arthur of Brittany, and was declared to have forfeited his fief of Brittany. Instead of the old peerages, the territories of which were united with the crown, new ones were created; among others the dukedom of Brittany, the counties of Artois and Anjon. in 1296, the new duchy of Burgundy, for Philip the Bold, in 1361, which were followed by the creation of other dignities, in the beginning merely for princes of the blood, but since 1551, also for other eminent persons. Under Louis XIV, the number of peers (ducs et pairs) was still increased; yet, besides their rank, a sent in the parliament was their only privilege, Among these new peerages was that of the archbishop of Paris, who, as a secular peer, was called duke of St. Cloud: the most ancient was the duke of Uzes, of the year 1572; the latest the English duke of Richmond. There were thirty-seven of them. At the coronation, the ancient twelve peers were represented. The revolution of the last century, of course, abolished the French peerage; but Louis XVIII reëstablished it after the model of that of England, by the charter of 1814. In the article France, we have given their privileges, and the right of the crown to establish them. Villèle created, under Charles X, 76 new peers at once (see Villèle); and when the charter was amended in consequence of the revolution of 1830, several changes were made in relation to the peers, and, by a special provision, "all the creations of peers during the reign of Charles X are declared null and void:" they amounted to ninety-three. It was provided, also, that article 23 of the charter should undergo a fresh examination during the session of 1831. That article runs thus: " The nomination of the peers of France belongs to the king. Their number is unlimited: he can vary their dignities, and name them peers for life, or make them hereditary, at his pleasure." The new law abolishing hereditary peerage very readily passed the chamber of deputies; but its fate in the house of peers

was not settled until thirty-six new peers were created for life, Nov. 19, 1831. It finally passed this house Dec. 28, by a majority of 33. It was a radical fault, in the French charter of 1814, to establish a pecrage after the model of the English. whilst none of the foundations, on which the English pecrage rests, exists in France. Napoleon's judgment on this point was very correct. He said to Benjamin Constant, "The peerage is not in harmony with the present state of public opinion. It would wound the pride of the army; it would deceive the expectation of the partisans of equality; it would raise against as a thousand individual pretensions, Where do you expect me to find the elements of aristocracy which the prerage requires? The ancient fortunes are hostile; several of the modern ones dishouorable. Six or seven illustrious names do not suffice. Without remembrances, without historical eclal, without large properties, on what would my peerage rest? That of England is something totally different: it is above the people, but it has not been against it. It was the nobles who gave liberty to England. The great charter comes from them; they have grown great with the constitution, and have been born with it. But within thirty years my roushrooms of peers would be nothing but soldiers or chamberlains. You would only see a camp or a chamber." England, the peerage originated as in France. This dignity belongs to the five degrees of nobility (duke, marquis, carl, viscount and baron), by right, which is not the case with the French nobility, though the idea of misulliance does not prevail by any meaus to the same extent in England as on the continent of Europe.* In the beginning, all the crown vessals appeared at court on the days of state, and attended the diets; afterwards only those who were summoued to appear by writ. This custom grew at length into a rule, and the summonses were considered proofs of hereditary peerage. There is one lordship—the borough of Arundel which confers the dignity of earl on its possessor by prescription. In regard to all other titles, the peerage is personal, and descends in a direct line from male to male. The chief privileges of peers are that of a seat in the house of lords, of a trial by persons of noble birth, in case of indictments for treason and felony, and misprision thereof, and of Remption from arrest in civil cases. The number of Catholic

* Miss Foote is the sixth actress married to an English peer.

peers in Great Britain and Ireland is 18. The expenses attendant on the creation of a peer in England, including the tees paid at the herald's office, &c., amount to £600.

Pegasus; a winged horse, sprung from the blood of Medusa, when Persons had cut off her head. He received his name from his being born, according to Hesiod, near the sources (anyor) of the ocean. As soon as born, he left the earth, and flew up into heaven; or rather, according to Ovid, he fixed his residence on mount Helicon, where, by striking the earth with his foot, he instantly raised a fountain, which was called Hipporrene. He became the favorite of the Muses, and, being afterwards tained by Neptune or Minerva, he was given to Bellerophon to conquer the Chimara. (See Hipponous.) No sooner was this mouster destroyed, than Pegasus threw down his rider, because he attempted to fly to heaven. This act of temerity in Bellerophon was punished by Jupiter, who sent an insect to torment Pegasus, which occasioned the melanchely fall of his rider. Pegasus continued his flight up to beaven, and was placed among the constellations by Juping. Perseus, ac-cording to Ovid, was monated on the horse Pegasus, when he destroyed the sea monster, which was going to devour Andromache.

Pear, or Bear; till 1757, a kingdom of Asia, now a province of the Birman empire (q. v.), bounded north by Arnean and Ava, east and south by Siam and the sea, and west by part of Aracan and the bay Pegu scems to be a level of Bengal. country, without any considerable mountains, excepting some which surround it, and serve for a frontier towards the land, but is liable to be invaded not only by sea, but also by land, by means of the rivors which make their passage through those mountains. The two principal rivers are the frrawaddy and Sitang. The air is healthy; the soil very fertile in rice, corn, fruit and roots; it likewise produces good timber of several kinds. The country timber of several kinds. abounds with elephants, buffalors, goats, hogs and other animals: here is abundance of wild game, and deer in great plenty. There are mines not only of iron, tin, and gansa, or lead, which passes for money, but also of rubies, diamonds and sapphires. The rubies are the best in the world; but the diamonds are small. But the most valuable production is teak timber, for ship-building. The principal ports are Rangoon, Sirian and Negrais. The inhabitants are mostly idolaters of the sect of Budda. Pegu was formerly the

capital; lon. 96 42 F.; lat. 18 5 N.; population, 7000. This city, in the year 1600, was splendid, large and populous, supposed to contain 150,000 inhabitants. According to some Europeans, who saw it in its greatest splendor, it was very spacions, fair and strong, surrounded with stone walls and very wide ditches. was divided into two cities, the old and new; in the old lived the merchants and strangers; and, as the houses were only built with wood, or bamboo canes, covered with tiles, each had a warehouse of brick, arched, to secure the goods from fires, which were frequent here. The new city, inhabited by the king, the nobility and the people of fashion, was extensive and populous; its figure square; and in each side of the wall were five gates of stone, with many gilded towers by the side of it forposting sentries. It was encompassed with broad ditches, in which were bred crocodiles, to deter people from wading over them. The king's palace stood in the midst of this new city, built like a fortress, with walls and ditches. In 1757, Pegu was destroyed by Alompra, the Birman emperor; by the temples were left standing, and the temple of Shoemadoo still exists as a monument of the greatness of its ancient monarchs. It stands upon two quadrangular terraces, of which the lower is 10 feet high, the upper, 20 feet. The sides of the former are each 1391 feet in length, of the latter, 684. The temple is a massive pyramid of brick and mortar, without any excavation or aperture, octagoud at the base, each side of which measures 162 feet. A projecting part round the base is surmounted with 57 turrets, 27 feet, high. On this stands a second projection, surmounted by 53 similar towers. The whole is crowned by a Tee or iron suminit, on which is a gilt umbrella, 56 feet in circumference, 360 feet from the ground. The Tee is gilt, and beneath it hang numerous bells, which the wind keeps constantly ringing. In each angle of the upper terrace are temples, 67 feet high, resembling the principal temple. All around the steps are innumerable images of Godama or Budda. The priests say that the Shoemadoo was begun 2000 years ago.

Pentivi. (See Persian Language.) Prirris, or Tchuosko; a deep lake, between the Russian governments of Livonia, Esthonia, Pskov and St. Petersburg (80 versus long by 30 broad). It is connected with take Pskov, or Pleskov, by a kno, and with the gulf of Finland by the move his court to the northern provinces,

4.

Narova or Narva. In the brilliant days of the Hansa, it had considerable navigation.

PEISHWAH. (See Mahratlas.) PEKAN. (See Weasel.) PEKAN-NUT. (See Walnid.)

PERING, or PERIN; a city of China, capital of the empire, situated in a very fertile plain, 20 leagues distant from the great wall; lon. 116° 23' E.; lat. 39° 54' N. The city encloses an area of fourteen square miles, exclusive of the suburbs, and is divided into two towns, the one in- , habited by Turtars, and the other by Chinese. The Chinese city has a wall of its own, enclosing an area of nine square miles. The estimated population of Peking, says sir G. Staunton, was carried in the last century, by the Jesuit Grimaldi, to 16,000,000. Another, missionary reduces, at least that of the Tartar city, to 1,250,000; according to the best information given to the embassy, the whole was about 3,000,000; but this num-The low ber is probably exaggerated. houses of Peking seem searcely sufficient for so vast a population; but very little room is occupied by a Chinese family, at least in the middling and lewer classes of In their houses there are no superfluous apartments. A Chinese dwelling is generally surrounded by a wall six or sevon feet high; within this enclosure a whole family, of three generations, with all their respective wives and children, will frequently be found. One small room is made to serve for the individuals of each branch of the family, sleeping in different beds, divided only by mats hanging from the ceiling. One common room is used for eating. Peking contains thirty-three temples, eight public altars, as the altars of heaven and earth (on the former of which the emperor sacrifices in summer, the latter in winter), those of eternal life, of the stin, of the moon, and of agriculture, two Catholic churches (Portuguese and , French), several monasteries, two Russian-Greek churches, with a monastery (whose archimandrite, and eight monks, usually selected from the pupils of the Russian seminaries, are changed every four years; four of the latter learn the Chinese and Mantchoo languages, and are destined for interpreters), four mosques, a foundling hospital, twenty-six tribunals, and 10,000 palaces. The name Peking, which significe the northern court, is given to distinginsh it from Nanking, or the southern court. The empleor formerly resided in the latter; but the Turturs, a restless and narrow channel, with lake Virtz by the warlike people, obliged the prince to re-

that he might more effectually repel the incursions of those barbarians, by opposing to them the numerous militia that he gen-This erally keeps around his person. capital forms an exact square, and is divided into two cities: the first is inhabited by Chinese, the second by Tartars. These two cuies, without including the suburbs, are six leagues in circumference. The walls of the Tartar city are very lofty, and so thick, that twelve horsemen might easily ride abreast upon them; with spacious towers at intervals, a bow-shot distant from one another, and large enough to contain bodies of reserve in case of necessity. The city has nine gates, which are lofty, and well arched; over them are large pavilion-roofed towers, divided into nine stories, each having several apertures or port-holes; the lower story forms a large hall, for the use of the soldiers and officers who quit guard, and those appointed to relieve them. Before each gate a space is left of more than 360 feet; this is a kind of place of arms, enclosed by a semicircular wall, equal in height and thickness to that surrounding The great road which ends the city. here, is commanded by a pavilion-rooted tower, like the first, in such a manner that, as the cannon of the former can batter the houses of the city, those of the latter can sweep the adjacent country. The streets of Peking are straight, the principal ones about 120 feet wide, a full league in length, and bordered with shops. It is astonishing to see the immense concourse of people that continually fills them, and the confusion caused by the prodigious number of horses, camels, mulcs, and carriages, which cross or meet each other. It is very singular that, in all this prodigious concourse, no women are ever seen. The emperor's palace stands in the middle of the Tartar city. It presents a large assemblage of vast buildings, extensive courts and magnificent gardens, and is shut up on all sides by a double wall; the intervening space being occupied by houses belonging to the officers of the court, eunuclis, and by different tribunals. The exterior circumference of this im-, mense palace is reckoned a league and a half. Although the Chinese architecture has no resemblance to that of Europe, the \sim rigid doctrines of Augustine with the milder \cdot imperial palace of Peking does not fail to strike beholders by its extent, grandeur, and the regular disposition of its apart-The royal hall, called Tui-hotien, or the hall of the grand union, is built upon a terrace, about 18 feet in height, incrusted with white marble, and orna-

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manship. This hall is almost square, and about 130 feet in length. The ceiling is carved, varnished green, and loaded with gilt dragons, covered with coarse carpers, after the Turkish manner; but the walls have no kind of ornament, neither tapestry, lustres, nor paintings. The throne, which is in the middle of the hall, consists of a pretty high alcove, exceedingly neat. It has no inscription but the character Ching, which signifies holy, perfect, excellent.

PELAGIANISM is that theological view which denies the total corruption of men. attributed to the fall of Adam (original sin), and declares man's natural espacity sufficient for the exercise of Christian duties and virtues, provided he have but an earnest purpose to do well. It does not exclude faith in divine assistance towards man's improvement, but believes this as sistance will be granted to those only who strive to improve themselves. This view was broached by the English monk Pelagius, who, in the fifth century, resided in Rome, with the reputation of great learning and an unspoted life, and fled from that city when it was taken by the Goths, in 409, with his friend Octlesius, to Sicily, and thence to Africa, where Augustine (q. v.) declared him a heretic; in which several African synods concurred. lagius travelled to Jerusalem, and there closed his life in tranquillity, in the year 420, at the age of ninety years. The philosophical soundness and noble frankness of his writings, together with his own great virtue in a time of universal and deep-rooted corruption, procured many adherents to his opinions, which at all times have been considered, by some of the purest and most reflecting men, as the only ones worthy of the Deity. He never attempted to found a heretical or dissenting sect, yet the Pelagians, whose views were formally condemned at the council of Ephesus, in 431, and the Semi-Pelagians, founded by John Cassianus at Marseilles (died in 435), who somewhat modified the orthodox dogma of the outer insufficiency of man's nature for virtue, occupy a very important place in ecclesiastical history. Respecting the various forms and names, under which the contest of the views of Pelagius has been renewed in the Christian church, see the article Grace; see also Wigger's Pragmatische Darsichung des Augustinismus und Pelagianismus (Berlin, 1821), Mosherin's Ec-" clesiastical History, &c.

PELASGIANS; the oldest inhabitants of mented with balustrades of excellent work. Greece. (q. v.) They dwelt first in the

Peloponnesus, whither they were proba-bly driven from the coasts of Asia Minor, by the islands, or through Thrace and Thessaly. They lived in wandering hordes, without any political union, and worshipped a rude stone, or a head with a pointed beard, which was set upon it, as the image of the Deity. They were secured from the invasion of other hordes, by the boggy and mountainous nature of the peninsula; and two tribes of them, who established their residence on the borders of the gulf of Corinth, abandoned their barbarous manners earlier than the others. Here arose the kingdoms of Argos and Sicyon, where Inachus and Phoroneus reigned. Pelasgos, the grandson of the latter, founded a nomadic state in Arcadia; hence the tradition, that those Arcadian hordes received the name of Pelusgians from him, which was afterwards given to all the original inhabitants of ancient Greece. From this Arcadian state of Pelasgians proceeded several colonies, particularly to Northern Thessaly, where their leaders, Achaus, Phthius and Pelasgus founded the vities Achaia Phthiotis' and Pelasgiotiss they also established colonies in the countries afterwards called Becotia and Attice, and also in Epirus and Italy. The celebrated Cyclopean walls are their work, and they are renowned for their skill in agriculture and the building of cities. They gradually became extinet, by wandering from Greece, or mingling with other clans. Notwith-standing the investigations of learned antiquarians, much obscurity still hangs over the history of this people, and the name Pelasgians seems to require to be taken in more than one signification.

Peleus, son of Æacus (q. v.), king of Egina, and Enders. Having unintentionally taken part in the murder of his half brother Phoens, he fled with Telamon to Phthia, to the court of Eurythion, the son of Actor, who purified him from the murder, and gave him his daughter in marriage, with a third part of his kingdom. Pelcus how went with Eurythion to Calydon, to aid in hunting the celebrated boar. On this expedition he accidentolly killed his father-iu-law with a javelin, which he simed at the boar. Upon this, he fled to lolchos, to Acastus, who purified him from the deed. Astydamia, the wife of Acastus, became enamered of him, and because Peleus refused to gratity her desires, she accused him of a criminal of the Philippines, and by them named the passion for her, and thus endenvored to Palaos islands, from the tall palm-trees, make him an object of batted to her husbend and to his own wife. Antigone 37 KM (

hung herself in despair; but Acastus, unwilling to violate the laws of hospitality, selected a hunting party to go to mount Pelion, with the intention of having Peleus put to death. Overcome with fatigue, he fell asleep on the mountain, and Acastus caused his sword to be taken from him, and then bound him, that he might become the prey of wild beasts. Jupiter sent Pluto to deliver him from his bonds, and when he awoke, Chiron; his mother's father, brought him back his sword. He then invaded lolchos with Jason, the Dioscuri, and a band of brave warriors, put Acastus to flight, and the queen to death. Thus he became master of a part of Thessaly. The gods - rewarded his continence by giving him, at the suggestion of Themis, the nymph Thetis for a wife, of whom he obtained possession by the assistance of Chiron. The nuptials were celebrated on mount Pelion, and honored with the presence of all the gods, who brought rich bridgt pres ents. Neptune gave Peleus the immortal horses, and Chiron the strong spear, which afterwards served Achilles before the walls of Troy. Many ancient posts celebrated these amptials, of whose songs only an echo remains to us in the Epithalo. mium of Catullus. Some later poet connected with this marriage the fate of Troy. (See Eris.) Peleus, who, in his youth, had been present on the Argonautic expedition, now ruled the Myrmidons in Honer calls him an eloquent, Phthia: and powerful and wise man. Of all the children of Peleus and Thetis, Achilles only reached the age of manhood. Pelens educated him with Patroclus, who had fled to him for safety, and reluctantly suffered him to go to the siege of Troy. Thetis deserted him, and he had the grief to survive his beloved son. After his death, he received divine honors, together with Chiron, from the inhabitants of Pella, in Macedonia; and Pindar mentions lam as one of the judges in the internal regions.

Perew Islands, or Paraos; a cluster of islands in the western part of the Pacitic ocean, situated between the Philippine islands, and the Caroline islands. They are about eighteen in number. In the year 1783, captain Wilson, command. er of the Antelope packet, in the service of the East India company, was wrecked on this coast. These islands were probably first noticed by some of the Spaniards which grow here in great abundance. The inhabitants had been represented as

inhuman and savage, and feeding on human flesh: captain Wilson, on the contrary, found them bospitable, friendly and These islands are long, but humane. narrow, of a moderate height, well covered with wood, at least such of the islands as captain Wilson's people had an opportunity of seeing. They are bordered on the west side by a reef of coral. The country produces some sugar-canes, and great abundance of the bamboo; likewise the turmeric, which the natives use as a dye, and with which the women stain their skin. None of the islands which the English visited had any kind of gmin, nor any quadruped whatever, except some brownish-gray rats which ran wild in the woods, and three or four meagre cats, which were seen in some houses at Polew. The islands, when viewed from the sea, exhibit high, rugged land, well covered with wood; the interior part is in many places mountainous, but the valleys are extensive and beautiful, spreading before the eye many delicious prospects. The soil is, in general, rich. Lon. 134° 40' E.; lat. between 6° 54' and 8° 12' N .--See Keate's Account of the Pelew Islands, and Hochin's Supplement to the Account (London, 1803).

Perias; son of Neptune, king of Iolchos, in Thessaly, from the throne of which he drove its lawful possessor, his brother Ason. He also removed his son Jason (q. v.), but perished on his return. According to tradition, his own daughters, following the advice of the cunning Meden (q. v.), who promised to renew his youth by her ungical power, killed him, and boiled his dismembered renains in a caldron: some say that Medea killed him herself. His son and successor, Acastus, instituted splendid games in honor of the dead, in which some of the most celebrated Argonauta bore off the prizes.

Percens (pelecanas, Lin.); bill long, straight, broad, much depressed; upper mandibles flattened, terminated by a nail, or very strong hook, the lower formed by a nail, two bony branches, which are depressed, flexible, and united at the tip; from these branches is suspended a moked skin, in form of a pouch; face and throat naked; nostrils-basal, in the form of narrow longitudinal slits; legs short and strong; all the four toes connected by a web; wings of moderate dimensions. The pelicans are large birds, which reside on rivers, lakes, or along the sea-coasts. Though excellent swimmers, they also occasionally perch on trees. They are gregarious, very

fond of fish, and when harassed or pursued, readily reject the contents of their stomach, like the gull tribe. They store up their prey in their gular pouch, from which it is gradually transferred into the osophagus, as the process of digestion goes on. Though remarkable for their voracity, some of the species have been trained to fish in the service of man. In external appearance the sexes very nearly . resemble each other. - P. onocrotalus, Lin., & c. ; white, or common pelican; white, taint ly ringed with the sheolor, gullet with a bright, yellow ponch. The spurious wings and first quill feathers are black. The bag at the throat is tlaceid, membranous, and capable of great distintion. Lyngth between five and six feet; extent of wing eleven feet; being rather larger than the swan, though with much shorter legs. The young are distinguished by the preyalence of cinercous in their plumage, and have been erroneously designated P. Phil-1 ippensis and P, fasens, by Gmelin and Lathum. This bird has its specific name from its cry, which is loudest during flight, and which the ancients compared to the braying of an \six inhabits Asia, Africa and South America. About the middle of September, flocks of this species repair to Egypt, in regular bands, ferminating in an obtuse angle. During the summer months, they take up their abode on the borders of the Black sea and the They are rare in shores of Greece. France, and unknown in Great Britaio. Jr. fishing, they do not inmediately swallow their prey, but fill their bag, and return to the shore to consume at leisure the fruits of their industry. As, however, they quickly digest their food, they generally fish more than once in the course of the day, and, for the most part, in the morning and evening, when the fish are most m motion. A single pelican will, at one repast, despatch as many fish as would suffice for six men; and in confinement, it will, moreover, snap up rats and other small quadrupeds. At night, it retires a little way on the shore to rest, with its head learning against its breast; and in this attitude it remains almost motionless, till hunger calls it to break off its repose. It then flies from its resting-place, and, raising itself thirty or fort, feet above the surface of the sea, turns his head, with mo eye downwards, and continues on wing till it sees a fish sufficiently near the surface, when it darts down with astonishing swittness, . scizes it with uncrring certainty, and stores it up in its pouch; it then rises again,

till it has procured a competent stock. The female feeds her young with fish that have been macerated for some time in her pouch. The pelican is not only susceptible of domestication, but may even be trained to fish for its master. When a number of pelicans and corvorants (cormorants) get together; they are said to practise a singular method of taking fish; for they spread into a large circle, at some distance from land, the pelicans flapping on the surface of the water with their extensive wings, and the corvorants diving beneath, till the fish contained within the circle are driven before them towards the land; and, as the circle contracts by the birds drawing closer together, the fish are at length reduced within a parrow compass, when their pursuers find no difficulty in securing them. In this exercise, they are often attended by various species of gulls, which participate in the spoil. The pelican generally broads in marshy and uncultivated places, particularly about islands and lakes, making its nest, which is deep, and a foot and a half in diameter, of sedges and aquatic plants, and lining it with grass of a softer texture; but it frequently dispenses with any such formal construction. It lays two or more white eggs, of equal roundness at the two ends, and which, when persecuted, it sometimes hides in the water. When it nestles in dry and desert places, it brings water to its young in its bag, which is capable of containing wearly twenty pints of liquid; but that it feeds them with its own blood, must be ranked among the fabulous assertions of antiquity. Its flesh is very generally disliked.

Pelides; son of Peleus. (q. v.) (See Achilles.)

Periom. (Sec Jolita.)

Perion (now Sagari); a high mountain in Thessaly, producing various medicinal herbs. On one of its summits stood a temple of Jupiter. In the neighborhood we find the grotto of the centaur Chironin the war of the Titans with the gods, the former, say the poors, piled Ossa upon Pelion, to aid them in climbing to the dwellings of the latter.

PELLAGRA. The pellugra of the Lorubardo-Venetian plains, a horrible malady, or complication of maladies, has only been observed during the last sixty or eighty years, and is rapidly increasing. A sixth or

tumn, and disappears in the winter; chiefly affecting those parts of the surface which are babitually exposed to the sun or air, is accompanied or preceded by remarkable lassitude, melancholy, moroscness, hypochondriasis, and not seldom a strong propensity to suicide. With each year, the disorder becomes more aggravated, with shorter and shorter intervals in the winter. At length the surface ceases to clear itself, and becomes permanently enveloped in a thick, livid, leprous crust, somewhat resembling the dried and black skin of a By this time, the vital powers are reduced to a very low ebb, and not seldom the intellectual functions. The miscrable victim loses the use of his limbs, more particularly of the inferior extremities; is formented with violent colic, head-oche, nausea, flatulence and hearthurn, the atpetite being sometimes null, at others voracious. The countenance becomes sombre and melancholy, and totally void of expression. But the most distressing phenomenon of all is a sense of burning heat in the head and along the spine, from whence it radiates to various other parts of the body, but more especially to the palms of the hands and soles of the feet, tormenting the wretched victim day and night, and depriving him completely of sleep. He frequently feels as if an electric spark darted from the brain and flew to the eye-balls, the cars, and the nostrils, burning and consuming those parts. To these severe afflictions of the body are often added strange bulluchrations of the The victim of pellagra fancies mind. that he hears the incessant noise of millstones grinding near him, of hammers resounding on anvils, of bells ringing, or the discordant cries of various animals. The disease, when advanced, takes the form of many other medadies, as tetanus, convulsions, chilepsy, dropsy, mania and marasmus, the patient leasing, at last, toexist and to suffer, when reduced to the state and appearance of a mummy. It is by no means; uncommon that the wretched being anticipates the hand of death, in a paroxysm of suicidal mania, very often by drawning. It is almost confined to those who reside in the country, leading an agricultural life, and to the lowest orders of society. It is not bounded by any age, being frequently-seen in the youngest children. The whole of the flat country on both sides of the river Po, but more seventh of the population are affected in on both sides of the river Po, but more those parts of the country where it is especially the fertile and level plains be most prevalent. It begins by an crysipel-tween that river and the Alps, are the atous eruption on the skin, which breaks theatre and head-quarters of pellagra-out in the spring, continues till the out. The cause of this frightful endemic has

engaged the pens of many learned doctors; but it is just as inscrutable as the causes of hepatitis on the coast of Coronandel, elephantiasis in Malabar, berriberi in Ceylon, Barbadoes Ly in Antibes, goitre among the Alps, the plica in Poland, cretinism in the Valais, or malaria in the Campagna di Roma. The general opinion among the medical men of the Milancese is, that the pellagra results from the extreme poverty, and low, nuwholesome diet, of the peasantry. (See doctor Johnson's Jubunnal Excursion through France, Switzerland and Italy.)

PELOPIDAS; son of Hippocles, a Theban general, friend and contemporary of Epaminondas, who lived till B. C. 364. To him belongs the honor of having freed his country from a tyrannical faction and from the Lacedemonian voke. Having been banished from Thebes with several other patriots, he retired to Athens. Animated with an ardent love of liberty, he disgnised himself, and went to Thebes with a few conspirators, put to death the tyrants at a banquet where they were all assembled, and gave the signal for the expulsion of the Lacedemonians, who had taken possession of the citadel in a time of peace. Pelopidas then served under Epaminondas with distinguished courage, and contributed much to the victory over the Lacedemonians at Leuetra. He was aft rwards commander-in-chief in three campaigns against Alexander, tyrant of Phore, in Thessaly, who had once imprisoned him without any just cause; but, having pursued the prince too far, he was surrounded by the enemy, and fell.

Peloponnesus; a celebrated peninsula, which comprehends the most southern part of Greece. It received this name from Pelops, who settled there, as the name, the island (mass) of Pelops, indicates. It had been called before, Egialca, Apia, Pelasgia, and Argos. Its present name is Morea. (q. v.) Peloponnesus was divided into six provinces, Messenia, Laconia, Elis, Arcadia, Achaia and Argolis, to which some add Sicyon. The Peloponnesus was conquered some time after the Trojan war, by the Heraclidæ (q. v.), or descendants of Heranics, who had been forcibly expelled from it.

Peloponnesian War, a war carried ou for twenty-seven years by Sparta and most of the Peloponnesian cities against Athens, who had long provoked the vongeance of the Greeks by the oppression of her allies. Athens herself hastened the commencement of hostilities, by aiding Coreyra in a contest with Cor-

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inth; and, on a new opportunity, engaged in new acts of violence against the latter: Corinth therefore invited Sparta, already jealous of the power of Athens, to take part in the war. The Spartans prepared for the contest; but, to save appearances, they made proposals of peace humiliating to Athens, which produced no result. destructive war now broke out, B. C. 431. All the people of Pelopomesus, except the Argives and Acheens, took the side of the Spartans; but the Greeian cities on the coasts of Asia, those in Thrace, and on the Hellespont, favored the cause of the Athenians, who had the advantage in point of strength; for, although the Spartans could bring into the field a more numerons land force than their enemics, they were deficient in fortifications, money and ships. Led by their king Archidamus, 60,000 Sportans marched into Attica, and laid waste the country with fire and sword. Pericles (q. v.), at the head of the # Athenians, sailed to the Spartan shores, and ravaged them in the same manner. Thus the war was carried on for severa! years, with mutual devastations, till the Athenians were overcome. A pestilence now broke out, which carried off Peri cles among others; and, after ten years of constant warfare, the parties were permit ted to enjoy a peace, which, however, was but temporary. By the advice of Alcibiades, the Athenians undertook a campaign against Syracuse, which was unsuccessful. Alcibiades, who was in the mean time banished from Athens, and had fled to Sparta, advised the Spartans to send troops to the assistance of the people of Syracuse, which gave rise to a renewal of the war. The greater part of the islands, the cities on the Hellespont and in Ionia, sided with the Spartans. They even concluded an alliance with the Persians against Athens, which, however, was saved by Alcibiades. He had escaped from Sparta in disguise, persuaded the Persian satrap Tissaphernes to break his alliance with that city, and gained so many friends in Athens, that he was recalled, and appointed general. He gained some splendid victories over the Pelopounesians, reconquered the cities on the borders of the Hellespont, and the Athenians. animated by such success, again rejected the proposals of peace. At length Lysander, one of the ablest Spartin commanders, signally defeated the Athenian fleet at Ægospotamos, B. C. 405, and laid 3 siege to Athens, which was compelled by the finning to surrender, B. C. 404. The long walls and the fortifications of the Pireus

were demolished. The Athenians were compelled to deliver up all their ships wide at its upper part and contracted at lut twelve, to renounce their former possessions, and to submit to an oligarchy, established by Lysander. In this war, roundish, the upper part broader, the lowersablished by Lysander. In this war, roundish, the upper part broader, the lowersablished by Lysander. In this war, roundish, the upper part broader, the lowersablished by Lysander. In this war, roundish, the upper part broader, the lowersable in the state of the supported by the highs; the hip bone is therefore missed, in walking, on that side which is supported by the thigh: on the contrary, ed, that universal dependence soon ensued. The walls of the cavity

Peloes; son of Tantalus, king of Lydia. A fable, which Pindar considers blasphemous, relates, that Tantalus once entertained the gods in his capital, Sipylus, and, to prove their omniscience, served up to them the body of his son Pelops. Jupiter discovered the trick, and ordered the limbs to be thrown again into the kettle, from which Clotho drew out the boy alive, and supplied, with ivory, the shoulder, which had been eaten by Ceres. According to Pindar, Neptune carried the beautiful Pelops to the abode of Jupiter. When Tantalus had made himself unworthy of the society of the gods, Pelons was also sent back to the dwellings of men. He went from Lydia to Greece, became a suitor of the beautiful Hippodamia (q. v.), and obtained the bride, with a kingdom. Poloponnesus received its name from him. Of his sons, Atreus and Thyestes are most celebrated. After death, Pelops received divine honors, and a temple was built to him in the grove at Olympia.

PELVIS; the lower part of the cavity of the abdomen in men and animals. In the infant it consists of many pieces, but, in the adult, it is composed of four bones, so united as not to admit of motion on

its inferior aperture. The outside is roundish, the upper part broader, the lower narrower. The whole pelvis is movable upon the thighs; the hip bone is therefore raised, in walking, on that side which is supported by the thigh : on the contrary, it sinks immediately with the trunk on that side on which the foot is raised and advanced. The walls of the cavity of the pelvis are even, smooth, and covered with flesh. A line drawn through the middle of the pelvis, divides it into two parts, one of which is called the upper or larger, the other the lower or smaller one. In well-formed persons of a middle size, the diameter of the great pelvis, or the distance from one hip bone to the other, is, in the male sex, about nine, in the female about eleven inches. The sufemale about eleven inches. perior size of the female pelvis is in-tended to assist gestation and porturition. It is evident, that the pelvis of men must have, on account of their erect figure, a different direction from that of The pelvis contains a part of animals. the small intestines, the roctum, the blad. der, the internal organs of generation, the large nerves and blood-vessels of the lower limbs, and many absorbent vessels, with their glands. Its office is to give steadiness to the trunk, to connect it with the lower extremities by a safe and firm junction, to form the centre of all the great motions of the body, and to give support to the gravid uterus.

PEN; a Celtic word signifying head, summit; hence Pennine Alps, Apen-

nines, &c.

APPENDIX.

NAPHTHALINE: a grayish-white substance, found during the rectification of the petroleum of the coal-gas works, incrusting the pipes. It may be obtained in thin, white scales, of a pearly brightness, by slow re-sublimation in glass vessels. Specific gravity, 1.048. It has a strong odor of naphtha; is soluble in ether, modcrately so in alcohol and oils, and insoluble in water. According to doctor Ure, it is a bi-carburet of hydrogen. It appears to bave been found native also in a layer of lignite in the roal formation of Uznach. baving the appearance of tale, but brittle and transparent. Its structure is crystalfine and apparently belongs to an irregular octaliedron as its primitive form. Colors white, green and yellow; fuses at a low temperature, and crystallizes on cool-

Napoleon: (Circumstances beyond our control oblige us, though with much regret, to refer the render for the article Nu-. poleon to the Appendix of the next vol-

unic.)

NEW YORK; one of the thirteen original states of the American confederacy.-Boundaries, &c. This state is bounded north by Upper and Lower Canada, east by Vermont, Massachusetts and Connecticut, south by New Jersey and Pennsylvania, and west by Pennsylvania, lake Erie and the Niagara river. The territory of this state is situated between lat. 40° 30' and 45° N., and between Jon. 5° 5' E, and 2° 55' W. from the city of Washington. Its extreme length from east to west, including Long Island. is about 408 miles; exclusive of it, 340' miles. Its greatest breadth from north to south is about 310 miles; its area 45,658 miles. The estimate includes the whole surface, except the waters of the great lakes. The territory now constituting the state of Vermont was included within the

limits of the colony of New York, and was claimed as a part of this state until 1790, when New York gave her assent to the creetion of the present state of Ver- , mont.--Civil Divisions. It is divided into fifty-six counties, namely, New York, King's, Queen's, Richmond, Suffolk, Westchester, Dutchess, Putnam. Orange, Rockland, Uster, Sullivan, Delaware, Greene, Columbia, Albany, Rensselaer, Schenectady, Schohle, Montgomery, Hamilton,* Saratega, Washington, War-ren, Essex, Clinton, Franklin, St. Lawrence, Jefferson, Lewis, Herkimer, Oncida, Madison, Oswego, Otsego, Chenango, Broome, Cortlandt, Tompkins, Tioga, Steuben, Onondaga, Caynga, Seneca, Ontario, Yates, Wayne, Livingston, Mon roe, Orleans, Genesce, Alleghany, Ninga ra, Eric, Cuttaraugus and Chautauque. In this enumeration, we have commenced with the most south-eastern counces, and proceeded north and west. These counties are subdivided into five cities, namely, New York, Albany (the scat of government), Troy, Hudson and Schencetady, and 764 towns. There are (0) incorporated villages, many of which have names differing from the towns in which they are situated; thus the flourishing village of Rochester is in the towns of Yates and Brighton, Geneva in the town of Sencea, ... &c. Besides the cities and towns already enumerated, the following may be mentioned as among the most flourishing and populous: Utica, Buffalo, Brooklyn, Canandaigua, Poughkeepsie, Auburn, Lluca, Catskill, Newburg, &c.

Face of the Country, &c. The state may be most correctly described as an

This county, not being separately organized, acts in conjunction with Montgomery county, and, for all political purposes, is considered a part

elevated tract, with indentations in various places below its general level. The most important depressions are the great basins in which are situated takes Eric and Ontario, and the long, narrow valley which contains the Hudson river and lake Cham-The two last are connected with each other by a valley occupied by the Mohawk river and the Oncida lake. The mountains, or elevated ground, is thus also separated into three principal divis-The first of these occupies the space south of the Mohawk river and the Ontario valley, and between the Hudson river and lake Erie; the second is the mountain district north of the Mohawk, , and between lake Champlain and the east end of lake Outario; and the third comprises that part of the mountain range east of the Hudson which is within the boundaries of this state .-- The western part of the first division, or that which lies between Seneca lake and lake Eric, forms a high table-land, about 2000 feet in mean elevation, and the highest part of it is occupied by the counties of Steuben, Alleghany, Cattarangus and Chantanqua. From this elevation flow the Alleghany, the Susquehamak, and the Genesee rivers, respectively terminating in the gulf of Mexico, the Atlantic ocean and the gulf of St. Lawrence. Chautauqua lake, the most western of the larger lakes in this state, is 1201 feet above the level of the, ocean, and 723 feet higher than lake Eric. It empties into the Alleghany. 'eastern part of the first division, or the space between Senera lake and the Hudson, south of the Mohawk, is occupied by several parallel ridges of mountains, which may be considered as continuations of the Alleghany ridge, passing out from Pennsylvania. These ridges are in a north and south direction, and their indentations give rise to several fertile valleys, particularly those of the Susquehamah, the Delaware and their branches. The highest is the Catskill mountains, which bound the valley of the Hudson on the west. The Round Top which is considered the highest summit of these mountains, is, according to captain Partridge, 3804 feet above the level of the tide water of the Hudson. There is also a narrow table-land on this subdivision, which merits attention from its explaining the course of rivers and lakes within it. It is situated a little south of the line of the Erie canal, and continues . almost uninterruptedly from the Catskill mountains to the head of Seneca lake. " On this are found Otsego and Schuyler's lakes, going to the south, and giving rise to

the sources of the Susquehannah. Both of these are at an elevation of about 1200 feet. Skanenteles, Owasco and Cazenovia lakes discharge their rivers to the north, but their elevation is several hundred feet less than that of the former. Cayuga and Seneca lakes are not highly elevated, the one being only 387 feet, and the latter only 447, above the level of tidewater. They thus occupy two long, narrow ravines, in a north and south direction, and are separated by a ridge 800 feet

above Cavuga lake.

The second division of the mountain district is traversed by at least five or six parallel ridges passing in a north-eastern direction, and which may be considered as continuations of the Appalachian chain. Portions of them are called Kayaderosses. Sacandaga, Mayfield mountains. highest elevation that has been ascertained with accuracy is 2686 feet, being that of a peak belonging to the ridge that passes through Herkimer and Hamilton counties and the northern part of Essex, near the sources of the Hudson.-The third division, or that part which lies up the east side of the Hudson, crosses the Hudson in the vicinity of West Point, and forms the highlands of that river. It also constitutes the dividing ridge between the Hudson and the Connecticut.

The depressions or basins in the state of New York are equally deserving of notice. Those of lakes Erie and Ontario are parts of the great St. Lawrence basin which embraces the whole of the five western lakes. Lake Eric has an elevation of 565 feet above the level of the ocean, lake Ontario of 231 fect. river Niagara discharges the waters of the former into the latter, and on it is found that great natural curiosity which alone deserves a visit across the Atlantic. river parrows at 20 miles below lake Eric. and the rapids then commence. A mile beyond, we come to the falls-151 feet on the Canada side, and 164 on the American. It is needless to attempt a description of their grandeur and magnificence. They must be seen by day and by moonlight, in every position, and under various conditions of the atmosphere, in order to realize even a portion of their splendor. (See Cataract.) The river at this place is nearly half a mile wide, and on the very brink of the precipice is situated Goat Island, which comains about eighty acres of land, and, extending up the stream, divides the water. The whole length of the Niagara is 35 railes; and the descent from lake Erie to lake Ontario is 336 feet.

It we proceed along the basin of the Outarro, we shall pass through a series of ic, tile countes, constituting the slope, watered by antherous rivers, which all finally empty into the lake. The Genesic is too could of the Canesas, Hembel, and Homeove lakes. The Oswego and its Southeres, the Clyde and Scheen, early the waters of Canandalana, Crooked, Son real Cavaga, Ownson, Skoundeles, Onenong cand Oncid clakes, into take Ontario. The castern termination of this basic is occupied by the Moleawk, its valley windof its way at the Lattle falls through surpendous rocks; while towards tiporthogast, the slope towards the St. Law race, achieved by the course of the Green Ruck to Osoogaachie and St. Regis in is, shows it to be a continuation of that towards the lok . The Histon and brouplant valley or busin is nearly in a tive line neighborse eath. Riscommen ble for its depth beaw the general surer of the level of the adjoining country, oring elecated at its highest part, only 144 well all over the level of inde-water in the Mulson, and 54 feet above the scriber of the lake. The northern past contains tike George and Jake Champhan, the dir be a comparing and the letter by a descent er in aly 200 flet. The southern pur rebacs the valley of the Budson and communicates with the valley of the Moswhore tabasay, which enters a new to the easterly differion. The Uniform expense france a linving their sources in The for our Usex courts at The Masame rises for an the conflowers, and a tile were of Obenda take. The name on dis and repuls on these beautiful tivers the remarkable. The Tremon fill cathe West Canado creek, a branch of the Mohawk, and the Little falls and Coloce, on the Mohawk itself, Glenn's falls, the then falls of the Parandaga (also a scarche, Baker's falls, on the Hudson- are ally a portion of the numerous depressons which not only thruish many of the ; and beautiful of natural objects, but also are made to minister at various ways to he prosperity and improvement of the community. From Glenn's falls to the unction of the Hudson with the Mohawk, Signo is a fall of 117 feet. No fact in the topography of the state of New York is afore remarkable than the peculiar posifrom of the Hudson and its branches. If we trace the course of any Atlantic river south of it, we shall find the pavigation closed by the mountain chain on the west. Not so with the Hudson: It peu-

cirates the highlorids, and after possible a some 160 miles, is put by a column's whose sources reach aearly to the lake Here the happy conformity of the conthe is such as a perior the osciblishment of no related data against. On executing our view over me 1. States, we cannot but he struck with the creamer after their by the stocess of the Proposed offi country, though ore set by for a genue Your intersecting at from the next was the the south war, is, for all corners of Louis poses, becoming an Island. We come yet only anti-space the hemality. We leave per l'arc de un le retone le nelette presentatione general views of the contemporary of a fine Consofthe complex a most of a day for to takes and tivels and occupating with there courses and responsibles, to be with a new or the section but, will, we someten to book a rate to recet estronte ellits prende all'empera

Contagger & Mine doch the contras 1 of Mr. Moeling's near maintainers of the gleony of the V, terrol via A. J. Is. that had earlie for him election beat exist archites testand on of dethrough the most halocomes that the beauty of any sugar to the color by the page of the color in public conordal. Vice a periori hally to the seat and properties, would as obse Sestem part of the same. The shortings salt springs as new recusir in a tand, we smaller as the head of the le-Salar Lame, about file gales . ery of Ailenay. Though the one of sidely tone games do weer of the book of perfectly firsh. Place which is a norw in the secological and animal decision of the parts after, the sidirocolo and colode, it loss the mind, or decreased veget of exertain Vinely consistates the valle of these spraige, a stagram of earths to the diace. containing many rous for a movine a mothis again appears to be succeeded by a complomerate. The postabor in ture of the underlying rock, or eather its position, does not reem septed, and we have not reem to go into the discussion concerning it. Salt is meaningenered believed a large extent by the various process and boding, of exaporation with artificial h. id, and of solar evaporation. In 1830, there were mann factured above 1,100,000 bushels. Gypsum in a various forms of earthy gypsime, selemte, and even alabasier, is found, par ticularly in the countries of Chioodaga and Cayuga, and is extensively applied for agricultural purposes. Aor most we cant a notice of the impace linestone found in the western as well as northern parts of the state, which has been a roost impor-

tant aid in the construction of the canals of the state. At an early period, it was found that it burnt, and mixed with proper ingredients, it would set under water, and, accordingly, has been most extensively used. Marble is obtained in large quantities from the quarries of Sing Sing for architectural purposes. During the last two years, the city hall at Albany, and the county court-house at Troy, have been built of it. Its purity evidently increases with the depth of the excavations. In noticing the prominent articles of mineral wealth, we must not pass by the vast beds of iron ore found in the counties west of lake Champlain. In 1825, there were no less than 103 iron-works, and 73 trip-hammers, in the counties constituting the fourth and fifth senate districts. The iron ore and fifth senate districts. of Columbia county, in the vicinity of the Hudson, is also highly valued and exten-Traces of other sively manufactured. metals, as lead, silver, zinc, titanium, &c., have also been observed in various parts of the state. It is still a problem whether anthracite or bituminous coal is to be found in sufficient quantity for useful purposes within the bounds of this state. Of minerals, which may be rather deemed objects of curiosity, this state furnishes numerous varieties. This will be sufficiently illustrated when we refer to the granitic districts near New York, and on the borders of lake Champlain-the transition and secondary districts that compose the body of the state. In fossil remains, even of some of the higher animals, there is also an abundant supply for investigation.

Curiosities. We have incidentally noticed some of these when speaking of the numerous falls on our rivers; nor did we, by any means, exhaust the catalogue. Those on the Genesee, in the village of Rochester, and at Ithaca, are equally deserving of notice; while several others on the streams of lake Champlain will, before long, become objects of curiosity. Ridge Road, extending from Rochester to Lewiston, is a most remarkable geological formation. It is, what its name implies, a road formed by the hand of nature, sufficiently broad for the purposes of travelling, and, generally, extremely level. It is at various distances, sometimes several miles from the shores of lake Ontario. with which it runs in nearly a parallel direction. The mineral springs of Ballston. Saratoga and New Lebanon should be mentioned, to which may be added the sulphur springs of Avon, together with the remarkable production of carbureted hydrogen, in immense quantities, in the

towns of Fredonia and Portland, Chautauque county. This gas has been conducted into these villages, and thus furnishes a natural gas-light. Among the remarkable objects connected with the artificial navigation of New York, must not be forgotten the aqueduct at Little falls; that over the Genesee, at Rochester; the locks at Lockport, at Little falls, and at the junction of the northern and western canals.—'The state of New York is far from being deficient in historical recollec-The fortresses of Crown Point tions. and Ticonderoga, of fort George and fort William Henry, add to the interest of lake Champlain and lake George. Bemis's heights, and the whole district rendered memorable by the descent and surrender of Burgoyne, are within a short distance from the mineral springs of Ballston and Saratoga. In the west are the huntinggrounds and residences of the famous Six Indian nations, now adorned by the productions of industry and refinement, yet still bearing traces of their former existence in their mounds, and other antiquities, occasionally observed. Towards the southern part of the state, West Point is full of interest, both for its present and past history. Fort Putnam, fort Lee, forts Clinton and Montgomery, Stony Point, and Dobbs's Ferry, along the Hudson, are all distinguished in the eventful story of our revolution.

Temperature, &c. A mass of interesting facts on this subject has been obtained, in consequence of the regents requiring annual meteorological reports from the academies under their care. These academies ard situated in every part of the state; and the mean temperature of the whole thus furnishes an approximation towards the actual state of thermometric heat.

lu	1826, the mean temperature of
	ten places, reporting com-
	plete annual tables, was 49.38
	eighteen places was 46.48
	1828, the mean temperature of
	twenty-four places was 49.50 1829, the mean temperature of
	twenty-eight places was 46.45
	1830, the mean temperature of
	thirty-four places was 48.15
	Mean of the five years, 48.00
Γi	e quantity of rain and snow has also

The quantity of rain and show has also been ascertained in a similar manner. Thus

 in 1827, the mean rain and snow of seventeen places was . . . 44.29 1828, the mean run and snow of twenty-five places was... 36.74 1829, the mean rain and snow of twenty-five places was . . . '34.88 1830, the mean rain and snow of thirty-two places was . . . 38.86 Mean of the five years, 38.22

The highest degree of temperature noticed in these tables is -1-104, at which the thermometers stood in the Montgomery acaderny, county of Orange, July 20, 1830. Its latitude is north 41° 32', and longitude west 74° 10'. The lowest degree noticed is -33, at which the thermometer stood in Lowville academy, county of Lewis, January 31, 1830 : north latitude 432 477; west longitade 75° 33'. The thermometric range is thus 137 degrees. The state is,

in general, very healthy.

Population, &c. Un Under the colonial government, the inhabitants of New York consisted principally of four classes:-1. Dutch, the descendants of the first settlers; 2. English and Scotch emigrants, and their posterity; 3. descendants of French Protestants, who took refuge in the celeny on the revocation of the edict of Nantes; 4. Germans, descendants of a colony of Palatines, who, in 1709, fled to England to escape persecution in Germany, and, in the ensuing year, emigrated to New York under the patronage of the British government. On the termination of the revolutionary war, a tide of emigration set in from the New England states, which contimied for many years, and to such an extent, that a majority of the present population is probably composed of natives of those states, or their descendants. Many emigrants from Ireland, and from other parts of Europe, have also been attracted to this state, and particularly to its great commercial metropolis and the flourishing towns in the interior. The influence of this varied descent is to be seen in many of the institutions and prevailing habits of the people; and it has probably tended to render the inhabitants of New York more liberal in their opinions, less wedded to particular systems, and more ready to imbibe and to follow the spirit of the age, than they might otherwise have been. Until within a few years, the German and Dutch languages were much spoken in particular districts, but both are rapidly falling into disuse. The progress of population in the territory composing the state of New York is almost unexampled, as will be seen by the following table: - Pop-

ulation in 1702, 20,708; in 1731 50,259, in 1738, 60,100; in 1771, 158,898; in 1790 340,120; in 1800, 586,050; in 1810, 959,049; in 1820, 1,372,812; in 1825. 1,616,458; in 1830, 1,919,101. In 1790. the territory west of the Seneca lake contained only 1081 souls; its population in 1830 was 406,906. According to the state census in 1825, the area was divided into acres, improved, 7,256,048;; unimproved, 21,964,888 = 29,220,936, or 45,658 square. miles. Population to a square mile, in 1825, nearly 35; in 1830, 42. The rapid increase of some of the cities and towns also deserves notice. New York, in 1790, contained 33,130 inhabitants; in 1810, 96373; and in 1830, 203,000; Albany, in 1790, 3498; m 4820, 12,630; in 4830, 24,238; Troy, in 1820, 5261; in 1830, 11,605; Rochester, in 1820, 1502; in 1830, 9269 : Ptica, in 1820, 2072 ; in 1830, 8320. New York is now entitled to thirty-four representatives in the house of represent atives of the U. States, and to thirty six presidential electors. Her relative weight, in these particulars, will be somewhat increased by the apportionment to be made under the census of 1830.

Manufactories, in 1825.

Saw-mills. 5195 Fulling-mills, 1291 Carding-machines, 1585 Cotton factories, 101 Woollen factories, 213 Iron works, 174 Trip-hammers, 161 Distilleries, 1120

The number of some of these establishments has greatly increased since 1825; but, within the last two years, it is supposed that about half the distilleries in the state have been abandoned, or applied to, other purposes.

Staple Productions. These are principally wheat and other grain, flour, provisions, salt, pot and pearl ashes, and lumber.

Canals. The following extensive and important communications have been constructed at the public expense, and under the direction of commissioners appointed by the state :- 1. The Erie canal commences at the city of Albany, and terminates at Buffalo, in the county of Erie, connecting the waters of the Hudson river with those of lake Erie. This canal was commenced in 1817, and has been in successful operation, throughout its whole extent, since 1825. It is 363 miles in .

iength, and has 689 feet of lockage. The cost of this canal is so blended with the cost of the Champlain canal (they both having been constructed at the same time, and by the operation of the same laws), that it cannot be ascertained, with accuracy, what each cost. 2. The Champlain canal commences at West Troy, six miles north of Albany, the point where the Eric canal turns west from the Hudson river, and terminates at Whitehall, in the county of Washington, connecting the waters of the Erie canal with those of lake Champlain. This canal is completed, and has been in successful operation since 1825. It is 61 miles in length, and has 188 feet of lockage. This canal has a lateral cut connecting it with the Hudson river, at Waterford, by three locks, as the · Eric canal has, connecting it with the some river, opposite 'Troy, by two locks. The cost of these two canals, as stated by the commissioners of the canal fund, at the close of the year 1825, when they were first declared complete, was \$9,267,234;48. This was exclusive of any payments of interest upon the loans which had been made to construct them, and which payments of interest then amounted to \$1,507,857:73. 3. The Oncego canal commences at the Uric canal, at the village of Syracuse, in the county of Onondaga, and terminates at the village of Oswego, in the county of Oswego, connecting the waters of the Eric canal with those of lake Ontario. It was completed in 1828, at a cost of \$565,13735, is 35 iniles in length, and has 123 feet of lockage. 4. The Cayaga and Senera runal commences at the Eric canal at Montezuma, in the county of Cayuga, and terminates at Geneva, in the county of Ontario, connecting the waters of the Erie canal with these of the Seneca lake. This canal has also a lateral branch to East Cayuga village, on the Cayuga lake, thus connecting the waters of this, and consequently of the Eric canal, with the Cayuga lake. Its cost, to its completion, in 1829, was \$236,804674 r its length, including the lateral canal, is 227 miles, and it has 834 feet of lockage. 5. The Chemuag canal begins at the head of the Seneca lake, and terminates at Elmira, on the Chemung river, in the county of Tioga, being in-tended to connect the waters of the Seneca lake with the head waters of the Syquehannah river. It is to have a navi-, gablo feeder from its summit level to Painted Post, in the county of Steuben. The length of the canal is 22, and of the feeder 13 miles. The lockage upon both

is about 520 feet., Contracts for their completion by the 15th day of October, 1831, have been made, for the sum of \$200,263, and they are expected to be navigable the ensuing season. 6. The Crooke i lake canal commences at the Seneca lake. at Dresden, and terminates at the Crooked lake, at Penyan, being intended to connect the waters of the Seneca lake with those of the Crooked lake. length is about 6½ miles, and its lockage is about 270 feet. It is under contract to be completed in the year 1832, and is estimated to cost \$149,198. Income of the public canals, in 1830 : Frie canal, \$954.328 . Champlan canal, \$78,148; Oswego canal, \$12,335; Cayngh and Senera canal, \$11,087; total, \$1,056,799. Disbursements: interest on canal debt, \$379,025. repairs, salaries, &c., \$201,556. Canal debt, January 1, 1831, \$7,825,635. For the payment of this debt, the canal fond, consisting of the canal tolls, duties on sait, . and on sales by auction, and several other. items, is inviolably pledged. The revemie of this fund, in 1830, independently or the tolls above stated, was \$383,617 The Delaware and Hudson canal, con. menced July, 1825, and completed October, 182c, was constructed by a private company, incorporated under the laws or New York and Pennsylvania. Its capital consists of \$1,500,000, of which \$500,000 are employed in banking, in the city of New York. The credit of the state of New York was also loaned to the compa us to the amount of \$800,000. This intal commences at the head of tide on the Rondout creek, in the county of Ulster, three miles from the Hudson river, and terminates at Honesdale, opposite the mouth of the Lackawaxan river, in Pennsylvania. – Length, 83 miles in New York and 25 in Pennsylvania. This canal is ing principally intended to open a commanication with the coal mines in Lazerne county, Pennsylvania, a rail-read has been constructed by the company, from the head of the canal, at Honesdale, to the mines at Carbondale. Its length is 16 miles. (For further information or the canals of New York, see Inland Navivation.)

Rail-Roads. Several companies have been incorporated for the purpose of constructing rail-ways, but no one of them has yet been entirely completed. The Mohawk and Hudson rail-road company was incorporated in 1826, with a capital of \$300,000, and with power to increase it to \$500,000, which has recently been done. The exclusive right of maintain-

ing a single or double rail-way between the waters of the Hudson, at Albany, and the Mohawk at Schenectady, for the term of fifty years, has been granted to this company. The work was commenced in 1828, and is so far completed that 12 miles of it have, since August, 1831, been used for the transportation of passengers, who are carried in coaches drawn by horses or locomotive engines. The average speed of the two engines now employed on the road is about 15 miles an hour; though each of them has been propelled, at times, nearly twice as fast; and it is supposed that their speed has not yet been fully ascertained. It is expected that the whole work will be completed during the present year (1831). Its length will be about 15 miles, and its estimated cost, with double rails, about \$500,000. The Ithica and Oswego rail-road company, incorporated in 1830, with power to make a rail-way from Ithaca, at the head of Cayuga lake, to Oswe-20, on the Susquehannah river, and the Suratoga rail-road company, incorporated in 1831, for the purpose of constructing a rail-way from Saratoga springs to Schenectady, have commenced, and are now prosecuting their respective undertakings.

Public Instruction, &c. Since the establishment of the state government, great exertions have been made by the legislature to extend the means of education to all classes. The appropriations made for this purpose, including the capital and income of the common school and literature funds, amount to more than \$6,000,000. There are four colleges, viz. Columbia, in the city of New York; Union, at Schenectady; Hamilton, near the village of Clinton, Oneida county; and Geneva, at Geneva, Ontario county. The whole number of students in these institutions, during the year 1830, including those in the preparatory schools connected with Columbia and Geneva colleges, was 677. (For the university of New York, instituted in 1830, see the article New York City, in the body of the work.) There are two medical colleges, one in the city of New York, and the other at Fairfield, Herkimer county; students in 1830, 350. There are 57 incorporated academies and seminaries, which derive from the public funds a portion of their annual support, and which had, in 1830, 4218 students. But the common schools are among the most important and intereshing institutions in the state. Every town is divided into a suitable number of school districts, in each of which a school-:50 *

with furniture and fuel, at the expense of the district. From the income of the common school fund \$100,000 are distributed among the school districts, according to the number of scholars thereis, between the ages of five and sixteen; and the towns are required to raise, by tax, an amount equal to that received from the state, and are allowed to taise double that sam. The following is from the official reports made in January, 1831 : Productive capital of the school fund, \$1,006,74566; revenue in 1830, \$100,678:60; local school fund, capital not stated; income in 1839, \$14,00550; whole number of school districts, 9002, of which 8630 made returns; whole number of schölars taught in the districts making returns, 499,124, or whom 497,503 were between five and sax teen; amount of public moneys received, \$100,000 from state treasury, \$124,556.04 raised by tax on the several towns, and \$14,09532 derived from local funds possessed by certain towns, equal to \$239.71336; total amount paid for tench ers' wages, \$586,520; estimated amount of all expenses incurred in 1830, for the support of common schools, by the publie and individuals, \$1,061,699. are two institutions for the instruction of the dear and dumb; one in the city of New York, having, in 1830, eighty-five pupils, and one at Canapharie, having, during the same year, twenty-nine pupils. They are chiefly supported at the public expense. There are in the state about 700 deaf naites. The institution in the citý of New York, incorporated April 15, 1817, has imparted its benefits to more than 300 pupils. Some of these pay; others are supported by the state, by the supervisors of the county, by a founde association for the relief of deaf mutes, or by private charity. The edifice or asylum for the accommodation of the pupils is situated about three and a half infles from the city hall. It has accommodations for 150 plipils and the requisite number of instructors. It cost \$36,000.. The grounds, consisting of ten acres, are handsomely laid out, in lawns and gardens, planted with trees and shrubbery. Workshops are erected in the rear of the asylum, in which a majority of the male pupils, during the time of relief from study, spend a few hours every day, in acquiring a knowledge of some mechanical employment. Some, also, are engaged in hor-The female pupils, at the ticulture. same time, are taught needle-work and other household duties. Mr. Harvey P. house has been crected, and is provided. Peet, the present principal, was for nine

years connected with the American asylum at Hartford. Associated with him are three professors and two teachers; one of these professors, Mr. Leon Vaysse, was educated in the Paris institution. The pupils are divided into five classes, and furnished with large slates. The regular term of study is five years; and the annual charge for pay pupils is \$130; but this charge is often reduced to meet the particular cases of applicants. The funds of the institution have been furnish-. ed by private contributions, by the legislature of the state, and by the corporation of the city. During the year 1830, the receipts were nearly \$17,000. Besides the establishments above-named, there are in every part of the state, particularly the large towns and villages, numerous schools and seminaries, supported by pri-

vate individuals. . . . The constitution's ecures "the free exercise and enjoyment of religious profession and worship, without discrimination or preference," and accordingly most denominations of Christians, and some Jews, are to be found in the state. There are a few religious corporations which are possessed of estates granted to them before the revolution, and now of considerable value; but in general the clergy are dependent for their support on the annual contributions of their respective congregations.—Clergy, in 1830, Pres. . byterians and Congregationalists, 431; Protestant Episcopalians, 118: Baptists, 274; Reformed Dutch, 106; Methodists, 372 : Lutherans, 13; various other denominations, 68; total, 1382. There are four theological seminaries in the state confected with the Protestant Episco- pal, Presbyterian, Baptist and Latheran churches. There are two flourishing so-cicties of Shakers; one at New Lebanon, in Columbia county, and the other at Niskauna, in the county of Albany. (For an account of this sect, sec Shakers.)

Prisons and Prison Discipline. In each county, a public hall is established by law, the management of which, though recently somewhat improved, is yet lamentably defective. But the state prisons at Auburn and Sing Sing, the former of which now contains about 600, and the latter about 800 convicts, are models both in respect to their arrangement and discipline. The convicts are compelled to labor together in silence during the day, and are lodged in separate dormitories at night. The eurnings of the convicts in the Auburn prison, during the year 1830, amounted to \$40,341, and the expenses of the estab-

lishment, including repairs, &c., to \$36,220. The amount received for the labor of the convicts at Sing Sing, during the same period, was \$13,651,44; expenses of the prison, \$53,571,01. This prison having been but recently completed, the future earnings of the convicts will probably exceed those for the year referred to.

Pauperism, &c. Until very recently, a system of poor laws very analogous to those of England, was in force in New York, where its influence and results were proportionally nearly as injurious as in the country from which it was borrowed. Within a few years, the former law of settlement, and the practice of compulsory removals, have been abrogated, and a simple rule of settlement, founded, principally, on the residence of the party, and a summary mode of settling disputed questions, substituted in their stead. Several modes of supporting the poor are in use; but that of maintaining them is: county poor-houses has been found bette: calculated to discourage pauperism, and more economical than any other. The following details are stated in the officia: report of the secretary of state, made in January, 1831, but are, to a considerable extent, founded on estimates made by that officer, from the returns received by him: Permanent paupers, 5790; occasional paupers, 12,348; cost of all the poor-house establishments in the state, \$865,406;64: annual expense of supporting the poor, \$246,752,90.

Finances, &c. Aggregate valuations of real and personal estates in the several counties in 1827—1828; real, 8275,861,474; personal, \$68,785,292, == \$344,646,763; whole amount of receipts into the state treasury in 1830, \$1,993,629; payment during same year, permanent appropriations, \$296,569; special, \$148,159; on account of canal fund, \$4,420,939; school fund, \$128,920; diterature fund, \$3,815; total, \$1,968,724.

Militia, in 1830. Horse artillery, 1716; cavalry, 5811; artillery, 12,803; infinity light infantry and riflemen, 166,514; artillery and cavalry attached to infantry for inspection, 1679; rank and file, 188,526; ordnance, iron, 141 pieces; brass, 179 pieces.

Banks. In 1829, an act was passed requiring every bank, thereafter to be created or renewed, to contribute annually one half of one per cent. on its capital to a fund intended for the payment of the debts of such banks as may at any time become insolvent. These banks are placed under the supervision of commissioners, to

whom they are required to make annual reports of their condition. Twenty-nine banks, subject to this act, had, in 1830, capital, \$6,294,600; bank notes in circulation, \$5,870,935; specie on hand, \$443,383; discounted notes, \$11,155,025; capital of banks not subject, in 1830, to the safety fund, \$21,323,460.

Miscellancous. Post-offices, in 1830, 1458; newspapers, 237, of which sixteen are published daily; amount of sales by auction in 1830, 825,766,111; duties thereon, \$218,513; steam-boats plying wholly or partly in the waters of this state, 75 (the first successful application of steam to the purposes of navigation, was on the Hudson river, in September, 1807); attorneys and counsellors at law, 1741;

physicians and surgeons, 2549.

Government, Laws, &c. By the amended constitution of this state, adopted in 1821, the legislative power is vested in a senate and assembly, the former consisting of 32, and the latter of 128 members. The senators are chosen for four years, and must be freeholders. The members of the assembly are elected annually. For the election of senators, the state is divided into eight senate districts, each of which is entitled to four senators, and one of whom is annually elected in each district. The members of the assembly are chosen by the several counties, among whom they are apportioned, according to a rule prescribed in the constitution. executive power is vested in a governor, who holds his office for two years. lieutenant-governor is chôsen at the same time, and for the same term. He is president of the senate, and, whenever the office of governor becomes vacant, takes the place of that officer. The right of suffrage is enjoyed by every made citizen, of the age of twenty-one years, who has been for one year an inhabitant of the state, and for six months a resident of the county where he may offer his vote. Under this liberal regulation, the number of electors is very great; in 1828, they amounted to 276,583. Sheriffs, coroners, and county clerks are elected by the people; the other civil officers are generally appointed either by flie governor and senate, the two branches of the legislature, or the governor alone, except clerks of courts, district attorneys, and some other officers, who are appointed by the courts. Field officers of the militia, below the rank field officers above that rank are appoint-

governor; smil officers are appointed by their respective commanders. The w diciary consists of the following courts: 1. The court for the trial of impeachments and the correction of errors, composed of the president of the senate, the 32 senators. the chancellor, and the instices of the supreme court. This court tries all in:peachments of civil officers preferred by the assembly, in whom the power of inpeachment is vested, and reviews, on appeals and writs of error, the decisions of the court of chancery, and of the supreme But on the hearing of an appeal from a decree in chancery, the chancelles has no voice in the final sentence; and when a writ of error is brought on a pidg. ment of the supreme court, the justices of that court have no voice for its affirm ance or reversal. 2. The court of chance ry, the powers of which are vested in the chancellor and in eight vice-chancellors 3. The supreme court, consisting of a chief justice and two justices. A There are eight circuit judges, who possess the powers of a justice of the supreme court at chambers, and in the trial of issues joined in the supreme court, and in courts of over and terminer and jail delivery All the circuit judges possess equity powers, as vice-chancellors, except the judge of the first circuit (that including Long and Staten islands and the city of New York), for which a vice-chancellor has been created by special law. 5. A county court, possessing, to a limited extent, beth civil and criminal parisdiction, is established for each county. Its decisions are liable to review in the supreme court. 🕏 A surrogale is appointed for each county, who possesses exclusive original perisdic tion in cases of wills and intestacy. 7. There are several other local courts; as the superior court of the city of New York, which consists of a chief justice and two associate justices, and possesses an extensive civil jurisdiction; the mayor's courts and special justices' courts, in the several cities; and the justices' courts in the several towns. These latter courts are held by justices of the peace. Every town in the state has four of these officers, and each of them has the power, with a few exceptions, of trying civil suits where the amount demanded does not exceed fifty dollars. They are chosen by popular election, and hold their offices for four years, but are so arranged in classes that of major-general, are elected by the offi- one is annually chosen in each town, cers of their respective brigades, &c.; The chancellor, justices of the supreme court, and circuit judges are appointed by ed by the governor and senate, or the the governor and senate, and hold their

offices during good behavior, or until they shall attain the age of sixty years. Judges of the county courts, surrogates, and other local judicial officers are appointed in the same manner, and for limited periods, in no case exceeding five years, but may be re-appointed. The constitution of this state not only contains several of the safeguards usually inserted in bills of rights, but has some provisions of a peculiar character; e.g.: No minister of the gospel, or priest, of any denomination whatsoever, can hold any civil or military office; all such inhabitants as, from scruples of conscience, are averse to bearing arms, are entitled to be excused therefrom, on paying to the state an equivalent in money; the assent of two thirds of the members elected to each branch of the legislature, is requisite to every bill appropriating the public property for local or private purposes, or creating, altering, or renewing any corporation; the inviolability of the common school fund is perpetually secured: the tolls on the Eric and Champlain canals, the duties on the manufacture of salt, and certain other items of revenue, are inviolably appropriated to the payment of the canal debt, and until such payment shall have been made, are incapable of reduction; the legislature are prohibited from disposing of these cauals, or the salt springs, or any part thereof; and whilst the right to draw such lotteries as had already been provided for by law, is fully recognised, provision is made to prevent additional grants of this nature.

The common law of England, varied and modified from time to time, by numerous acts of the colonial and state legislatures, forms the basis of the jurisprudence of New York; and there is no one of the United States, in which the judicial insti-tutions and the modes of legal proceeding, bear so close an analogy to those of Eng-At the same time, there is probably no state in the confederacy, which has made greater efforts, by means of its statutory regulations, to improve the English system, and to adapt it, both in its principles and details, to the institutious and habits of a free, intelligent, and active population. There have been, since the revolution, four several revisions of the statute laws of the state, viz. in 1787, in 1801, in 1813, and in 1827-8. The revision in 1787—8 consisted of a consolidation or re-enactment of various British and colonial statutes, with numerous amendments in form and substance; that of '1801 was a re-enactment in an amended form, of such of the former statutes as had

been varied by intermediate legislation, or that seemed to require alteration; and that of 1813 was a work of the same character. But the revised statutes of 1827—8 are substantially a new code of statute law; the various general provisions of the former statutes having been written anew, in a more concise and perspicuous phrascology, and the whole work having been arranged in a systematic and methodical order. Many alterations were made in the substance of the former statutes; in numerous instances, the rules of the common law, with the view of rendering them better known and more stable, were reduced to a written text, and inserted in the statutes; whilst in other cases those rules were abolished or greatly modified, especially in reference to the law of real estate, and to the practice in the courts. The enactment of this body of statute law, which went into full operation on the 1st of January, 1830. is, perhaps, one of the most important events in the history of American jurisprudence.

History. The territory now composing the state of New York was comprehended in queen Elizabeth's grant of the tract called Virginia, and in the grants of North and South Virginia, made in 1606 by James L. But no settlement was attempt ed in that territory under either of those grants; nor was this part of the continent: known to Europeans until September, 1609, when the river which bears his name, and the islands at its mouth, were discovered by Henry Hudson, an enterprising English navigator, then in the service of the Dutch East India company. After sailing up the river about 150 miles, he returned to Europe, and made known to his employers the result of his voyage. The Dutch immediately commenced a trade with the natives of the country, among whom were the powerful tribes afterwards known as the Five, and still later as the Six Nations. Trading establishments were soon formed by navigators, one at fort Orange (now Albany) as early as 1613, and one on the island of Manhattan, at New Amsterdam (now the city of New York), a few years later. In 1614, the trade was confirmed by the government of Holland to the West India company, which in 1621 was incorporated with a grant of the exclusive right to trade in America, &c., and with ample powers to establish and maintain settlements therein. Under this grant, the company took possession of the territory discovered by Hudson; gave to it the

name of New Netherlands; and in 1623 commenced its colonization, which was gradually continued, for about forty years, under their auspices. During this period, the affairs of the colony were managed by a governor or director-general and a council, who were appointed by the company, and in whom all the legislative, executive and judicial powers were vested. In the mean time, new discoveries were made, and the Dutch claims extended to Connecticut river on the east, and the Delaware on the south, in consequence of which they were on both sides brought into collision with the English, who set up a title to the wnole coast, May 12, 1664, Charles II made an extensive grant to his brother, the duke of York and Albany, which included within its bounds the colony of New Netherlands. A small armament was soon after fitted out in England, for the purpose of reducing that colony. The vessels appeared in the harbor of New Amsterdam, in August, 1664, and on the 27th of that month, the fort and town of New Amsterdam, and on the 24th of September, the garrison at fort Orange, capitulated to colonel Richard Nicolls, who had been appointed by the dake of York, to take possession of the province in his behalf, with the title and powers of deputy-gov-The inhabitants thereupon submitted to his authority; the name of New . Insterdam was changed to New York, which name was also extended to the whole country; and that of fort Orange was altered to allowy. After this, the colony was in the hands of a governor and council appointed by the duke of York, until July 30, 1673, when the garvison of New York surrendered to a squadron of Dutch ships, the commanders of which appointed a governor and other magistrates, who continued in authority until l'ebruary 9, 1674, when the territory was again surrendered to the English, in pursuance of the treaty of London. June 29, 1674, a new grant was made by Charles II to the duke of York. After the accession of the latter to the throne, the colony became a part of the dominions of the British crown, and the government was -administered by royal governors and a local council and assembly, until May, 1775, when the people determined to take up and exercise the power of civil government, which was accordingly done, through the medium of committees of safety and of the provincial congress, until the provisions of the state constitution, adopt-

The inhabitants of New York sustained an important part in the war of the revolution, and its territory was the scene of several sanguinary conflicts and of many interesting events. Upon the conclusion of that war, the state commenced a new and distinguished career, which has eye: since been steadily continued, and some of the results of which are briefly exhibited in this article. Authorities: Burr's .Illus of the State of New York; Topogra phy of the State of New York, by professor Henry, and other articles in the Transac tions of the Albany Institute (vol. i): Dar by's Geographical Works; doctor 1. C Beck On the Onondaga Salt Springs: M H. Webster's List of the Minerals in the State of New York; Smith's History of Nice York (edition of New York Historical Society); Moultor's History of the Colony of New Netherlands; Synthord's Gazettere of the State of New York; Williams's New York Annual Register for 1831; doesments and proceedings of the legislature of New York, &c.

Nonros, John, a clergyman of Boston, was born at Starford, in Hertfordshire, Eng. land, May 6, 1606. He was educated at the university of Cambridge, and, after graduating, became usher of the school, and exrate of the church, in his native town. He adopted the creed and practice of the Puri tans, and, in 1635, he arrived in Plymouth. New England, where he preached for several months, and was offered the charge of its church. This he declined, and, in the following year, removed to Boston. Before its close, however, he went to Ipswich to officiate as postor of the church in that While there, he wrote various works, which procured him much reputs tion. In 1652, he was solicited to become the minister of the church in Boston; but the inhabitants of Ipswich would cor grant him a dismission, notwithstanding several councils, called upon the occasion, advised his removal to the capital; and it was not until a council, summoned expressly by the governor and magistrates, had lent the weight of its adthority to that of the others, that his flock consented to From that period, he part with him. continued, during the rest of his life, to be the minister of Boston. In February, 1662, he went to England as one of two agents of the colony to address Charles H. after his restoration, and returned in September of the same year. They brought with them a letter from the king, in which he promised to confirm the charter, but required that the administration of justice ed in April, 1777, were carried into effect. should be in his name, and that all persons

of good and honest lives should be admitted to the sacrament of the Lord's supper, and their children to baptism. was something in this requisition repugnant to the feelings of the colonists, and the agents, although they had endeavored to execute their mission with fidelity, were treated coldly. This circumstance sank so deep in the heart of Mr. Norton, that it is supposed to have hastened his death, which took place suddenly, April 5, 1663, in the fifty-seventh year of his age.-Mr. Norton was a man of talents and great attainments. His works are numerous, and gave him distinction in his time. The first Latin book ever written in this country proceeded from his pen. It was an answer to a number of questions relating to church government, which had been sent over from Holland by William Apollonus, and was drawn up at the request of the ministers of New England. was an acute and subtle controversialist, and was fond of exercising his faculties in One of his treatises was that way. against the Quakers, entitled The Heart of New England rent by the Blasphemics of the present Generation. It is even supposed that his mistaken zeal prompted him to encourage the persecution which that sect endured. At all events, he was highly obnoxious to them, as may be inferred from the circumstance that, after his decease, they made a representation to the king and parliament, that "John Norton, chief priest in Boston, by the imme-. diate power of the Lord, was smitten, and died." In temper, Mr. Norton was naturally irascible, but he obtained the controf over his passions to such a degree as to be remarked for the general meckness and courtesy of his demeanor.

Оссом, Sampson, reverend, a Mohegan . Indian, born in the township of Montville, was one of the aborigines educated in the at Lebanon, in Connecticut: He made such progress in knowledge, and conducted bimself so well, that he received a regular ordination from the presbytery of Suffolk, on Long Island. Soon after, he became a missionary, and preached for some time to the Indians. On his return) from them, he began to preach in the country near Lebanon, and attracted crowded audiences. Doctor Dwight, in his Travels, mentions that he heard him twice. His discourses, he says, were decent, and his utterance in some degree Not long after he began to preach, he was sent to England by doctor Wheelock, in company with a Mr. Whit- ly-laid political measures.

aker, to solicit benefactions for a college to be erected in the wilderness, and devoted principally to the education of Ipdian youth. His appearance excited a great sensation in England, and the success of his solicitations surpassed the most sanguine expectations. During several years of the latter portion of his life, he resided within the bounds of the presbytery of Albany. He died honored and lamented.

Ocelot (felis pardalis, Liim.). This beautiful but savage animal holds a middle rank between the leopard and the common cat. The body is about three feet in length, and the tail about one; height about eighteen inches. Its uppe: parts are of a bright tawny color; sides whitish, marked with longitudinal stripes of black, or rather with a series of clongated spots with black margins and dark, tawny centre. A black stripe extends along the back from the head to the tail; there is also a black band from the nostrils to the corners of the eyes; the forehead is spotted with black; the legs are whitish, variewith small black spots; the tail is also marked with black spots, which are largest near its end. The occlot is a native of various parts of South America. 1: prevs on the smaller animals and birds, in the chase of the latter of which it is emnently successful. In its habits, it resembles all the cat kind, lying concented during the day, and issuing forth at night to pursue its prey. The female is not as distinctly marked as the male, nor as fere-She produces two young at a lit-The occlot is readily tained, but never entirely loses its natural savageness of temper. In fact, in this animal, as in all others of the genus, not even excepting the domestic cat, however their ferocious habits may be subdued by coercion and kindness, it will invariably be found that school of the reverend Eleazer Wheelock, their savage nature will betray itself on the slightest provocation, and that their thirst for blood is unconquerable.

· Otranto, Duke of, better known by the name of Joseph Fouché. If, in general, history does not venture to judge eminent inen by the views of earlier or later periods, but estimates them according to the character of their age, this is the more necessary in considering the great charac-

^{*} The above article is extracted from a manuscript biography of the duke of Otranto, written by a gentleman for a long time connected wall the duke, and enjoying his confidence. We re-gret that we are not able to give the whole, be-cause a detailed account is necessary to a tidi understanding of the reasons and causes of deep-

ters of a period whose annals are not yet closed. Fouche belongs entirely to the age of the French revolution. History has exposed the nature and progress of that great event, so far, at least, as to show that the characters belonging to it must not be judged by the same criterion as men whose lot was east in a time of, prace and order. Fouché must not, therefore, be judged according to a German or American standard, nor by the state of affairs in 1817 or 1788, any more than the French nation itself, whose evil genius presided over his destiny also; still less should be be condemned merely on the 'estimony of the revolution, which is rendered suspicious by its wild character of passion and delusion, of falsehood and violence—a character equally at variance with the moral and political institutions of society, and with a due regard for truth. Even his enemies must allow that he precented much evil, and that, also, on more than one important occasion, he opposed Napoleon with firmness. Joseph Fouche. born at Nantes, May 9, 1763, and educated, from the age of nine years, by the fathers of the oratory in his native place, was intended for the profession of his father—a sea-captain. As he was not, however, strong enough to bear the hardships of a sea life, he prosecuted his studies at Paris. He then taught metaphysics, physics and mathematics, in the academics at Juilly, Arras and Vendome, and, at the age of twenty-five years, was placed at the head of the college of Nantes. He was never a priest, but was married In September, before the revolution. 1792, he was chosen member of the consention by the department of the Lower Seine, and, September 20, 1792, he appeared for the first time in the Jacobirt thib at Paris. In the period of his life which now begins, two acts are particularly prominent-his vote for the death of the king without appeal to the nation, and his mission with Collot d'Herbois to The first he always considered Lvons. as an act of political necessity. "If," said he, to the last of his life, without exultation or regret, "the vote of the Mountain was not the most generous, it was certainty the most consistent, and, in the situation of the country, with Europe armed against her, the most politic." As to the second, great as our horror must be at this foul stain on the page of history, we must, future conduct. remember also, that he was but the sec- the directory were changed, Fouche was ondary agent in this mission, which he made umbassador to the Hague, and wrote to the convention to decline, but there received his appointment as minis-

his return from Lyons, he was furiously attacked by Collot d'Herbois, Couthon and Robespierre, members of the committee of public safety. Collot, as member of the committee, had been charged particularly with the execution of the decree against Lyons, and was the chief of the mission. Before Fouche was employed in this dreadful business, he had been sent to the department of the Aube, and, at another time, to that of the Nievre. to quell the insurrectionary spirit, which he did without violence. It was in the latter department that he suffered an inscription to be placed over the gate of the grave-yard of Nevers, running thus Ast mortest un sommeit et and : and when he returned, he was accused of materialism, in the convention, by Robespierre! Fouche's name, after his return from Lyons, in 1795, was crased from the list of the Jacobin club, of which he had been president. This was in consequence of his having united himself with the opponents to Robespierre's tyranny, Tallien, Legendre, &c. But, after the fall of Robespierre, on the 9th Thermidor, those who had overthrown him separated again into two parties, one of which professed strict democratic principles, and conspired to regain possession of power: this was called the conspiracy of Babeut. Fouché belonged to this party, and, having been denounced as a terrorist to the convention, on the proposition of Boissy-d'Anglas, an accusation against him was voted, August 9, 1795. He now withdrew into obscurity until the general annesty accompanying the constitution of the year III. when he went, with his family, to the Vallee de Montmorency, where he lived in perfect retirement, not having increased his fortune by his public employments, until, in 1798, the directory appointed him French minister to the Cisalpine republic, where he rendered much service by opposing the plans of Austria, &c., in Upper Italy; but a diplomatic note which he addressed to the Cisalpine government on this subject, caused his recall, to which he objected, and he was supported by the commander of the Italian army, Joubert, his particular friend. The directory whose conduct in this affair disgusted Fouché, were obliged to treat with him. The impressions which he had received undoubtedly had a great influence on his After the members of was not permitted to do so; and that, after ter of the police, in 1799, when France

measure was to break up the Jacobin club. France, at that time, was tottering between two abysses, the return of the Bourbons and the anarchy of revolution. Men like Fouché, Sièyes, &c., saw that a stable government was the most urgent want of the country. To establish liberal institutions, and to retain the conquests, which were on the point of being lost, comired a man at the head of the government who was both a general and a states-Bonaparte was in Egypt, Moreau refused, Joubert accepted the call, but the battle of Novi, August 7, 1799, put an end to his life and the plans of his friends." The dangers of the state increased; Bonararte appeared on the const of Provence; Fouche, without hesitation, joined the young general. The consular government was established, and, though the deplorable state of things induced many to rally round the first consul, his increasing power soon filled them with fear, and this circumstance affords a reason for Fouché's great popularity. He was considered by many as a guarantee of democratic principles. Fou**c**hé was made minister of the police, and rendered himself useful in the highest degree, by the detection of royalist and Jacobin projects and conspiracies. He frustrated the conspiracy of Arena, Cerracchi and Topino-Lebrun, brought the contrivers of the infernal machine to trial, and proved it to have been a contrivance of the aristocracy. Napoleon was much in tear of the conspiracies of the Jacobins; · Fouché did not agree with him, and thought them dangerous only in proporuon as the independence or liberty of the country was threatened; but he considered the royalists very formidable. He was indefatigable in tracing out conspiracies; and, so far from inventing them in order to throw more power into the hands of the government, his often repeated principle was, that "a new government always dates only from the conspiracy last detected, because such a discovery necessarily calls again in question what has been settled, and, therefore, shakes that which was already considered firm."
Some months after the time of Amieus (concluded March 25, 15 the time uninstry of the police was added to but of justice. Fouche was made senator of remained almost two years without inplayment. What had been the principals of his office, may be seen from his circulars. The consultations of Pichery, George Calculconspiracies of Pichégru, George Cadouand the excitement occasioned

was in a most critical situation. His first by them, obliged Napoleon to re-appoint Fouché, in July, 1804, though Savary retained the charge of the secret police. In this period happened the death of captain Wright, which has been laid to Fouche, because he had the command of the Temple in which Wright was imprisoned; but the police had not the sole care of the Temple; such a deed is not consistent with Fouché's character, and no sufficient motive has ever been assigned for his committing it. Pichégru, in April, 1804, had been found strangled in the Temple, at a time when Fouche was not minister of police. Fouché labored assiduously to make Napoleon's victories a means of attaching the fimid to the empire, and thus of thwarting all the hopes of the Bourbons. In 1806, Prussia concluded a secret treaty, with Great Britain, which, as Fouche knew, was equivalent to a declaration of war against France. It was of great importance to get possession of this instrument. Fouche took his measures so well, that the disguised courier, who carried it concealed in the bottom of a coach, was attacked by his agents on the road from Hamburg to Berlin, and deprived of the document. The battle of Jena, with its momentous effects, was the consequence. The peace of Tilsit was concluded. The emperor scened at the summit of his glory, and Fouché constantly advised him to turn his chief attention to the internal condition of France, to establish new institutions, and to develope the old. It seemed also necessary to him, that Napoleon should leave issue of his own to succeed him. He advised a divorce, and a marriage with a Russian princess; he was always opposed to a marriage with a daughter of the house of Austria. Talleyrand persnaded Napoleon to secure Spain. An opportunity was afforded by the revo-lution of Madrid; Napoleon marched to Spain; Austria declared war; Napoleon departed for the campaign of 1809. France, without troops, was left under the regency of a council, under the presidency of one of Napoleon's brothers. Fouche had the port-folios of the interior and the An English fleet, with an army on board, appeared before Flushing, and threatened Belgium; the danger was imminent; a council was held, and when Fouché proposed, as the only effectual measure, to give the command to Bernadotte, who had been in disgrace since the battle of Wagram, the arch-chancellor Cambacer's objected to the measure in these words—"You are going to divulge a

great state secret; it must not be known that the empire can be saved by any body but the emperor." However, the danger became greater, and Fouché was left at liberty to call the national guards to arms, and to give the command, on his own responsibility, to Bernadotte-measures which were crowned with the fullest success,

When the emperor returned, every one expected the disgrace of Fouché, whom he had made, before his departure, duke of Otranto; but the emperor, on the contrary, spoke of him at court, to M. Fontancs, as un homme prodigieux. Whether, however, the activity and popularity of the minister, his union with Bernadotte, or his strennous opposition to a marriage with an Austrian princess, gave umbrage to Napoleon, or whether the only cause of Fouché's disgrace was the following, we shall not attempt to decide. After hostilities had begun again with England, Napoleon had tried several times to enter into negotiations with the British minister. but insisted that they should begin under his name, while the English minister said that that would be agreeing to a point which was only to be settled by treaty, namely, the acknowledgment of Napoleon as emperor. Peace was desirable, and, as the biography before us states, the duke of Otranto, with the full consent of Napoleon, sent an agent (an Irish officer of the name of Fagan) to the marquis of Wellesley, to promote a mutual understanding. Napoleon distrusted his minister, and several times attempted to carry on the negotiations himself, but was always unsuccessful. This irritated him, so that, in a council held on this subject, he went so far as to say, C'est trôp de deux empereurs. The duke of Otranto received orders to discontinue the negotiation, and to give up all the correspondence connected with it, and the names of his agents. The correspondence was given up, but not the names of his agents, and the merchants through whom it had been carried on (Ouvrard in Paris, and Hope in Amsterdam), because he considered the transaction as strictly confidential, Ouvrard's arrest was occasioned only by vague suspicions. June 3, 1810, Savary (duke of Rovigo) was made minister of police, and Fouché governor of Rome. Before and Fouché governor of Rome. he went there, the emperor wished to take from him certain orders which he had given him respecting his ministry; but the duke of Otranto declared that he had burned them, and hastened to Italy, where he received an invitation from the commander of a British man-of-war to go to 51

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England with all possible guarantees from the British government; but he refused the offer, and determined to remain, at all risks, in Italy. He was soon recalled to France, and banished to Aix, the capital of his senatorship, where he hved a whole year retired, when he was permitted to return to his estate, on condition of not appearing in Paris. He now, in 1811, lost his wife—a loss which he severely felt. The conspiracy of Mallet (q. v.), while Napoleon was in Russia, showed the insufficiency of the existing police. Every thing depended upon the life of Na-Talleyrand, Dalberg, and others, poleon. formed plans with reference to what might take place, and wished to unite with the duke of Otranto, who, however, in an interview, became convinced of the insufficiency of their projects. In 1813, the duke was fixed upon by Napoleon to receive the temporary direction of a new government, the centre of which would have been Berlin, if Prussia had been conquered, as Napoleon hoped, after the battles of Lützen and Bantzen. The duke arrived at Dresden, when the French, having been repulsed from Berlin, had concentrated themselves at that point. It was intended that he should negotiate with Austria at Prague, but he saw that the die was east, and refused, and he was sent to Illyria as governorgeneral; but he was soon compelled, by the events of the war, to return to France. English agents had succeeded in rendering the king of Naples (Murat) disaffected to the cause of Napoleon, by convincing him that the emperor would be ruined by his ambition. Napoleon sent the duke of Otranto to regain the confidence of the king to his cause. He found the court had given up Napoleon as lost; and so much was the duke's influence feared, that the allies immediately agreed to every thing which Joachim (Murat) asked. The duke of Otranto now advised him to endeavor to unite Italy, and make it independent of Austria by the aid of England. The duke then returned to France, and arrived at Paris a few days after the declaration of the senate, that Napoleon had forfeited the throne. He lived retired during the first restoration, a witness of the wretched policy of the Bourbon-Decining the proximity of the deposed emperor a great evil, and that his restoration would be disastrous, he wrote a prophetic letter to the ex-emperor, advising him to go to the U. States, for his own sake and that of the adherents to the principles of the revolution. When Napoleon returned from Elba, the king sought for support from Fouche, who had an interview with Monsieur at the house of the duke of Dalberg; but he declared it too late. Bourrienne, prefect of police at ' Paris, then gave orders to arrest him. Fouche escaped, and joined Napoleon, who a third time made him minister of police. The congress of Vienna declared Napoleon an outlaw. He authorized Fouché to begin secret communications with Metternich, by way of Basle, because no open communication was possible; and, says our biography, it was even one of the conditions of the negotiation that, every thing should be excluded from the conferences which had relation to Napoleon. A letter carried by a certain Hedelhoffer to the duke of Otranto, from Metternich, stated that he would exert himself to induce the congress to listen, not to Napoleon, but to the wishes of France, respecting its government. Chance made Napoleon acquainted with the fact that the duke had received a letter. He asked for it, and immediately attempted to carry on the negotiations himself; but no answer whatever was received to his communications, so that Napoleon came to regard the whole affair as a piece of treach-The battle of Waterloo showed the whole danger of France. The chamber elected five members as a provisionary government, at the head of whom was the duke of Otranto. It is against his conduct at this period that the charge of treachery has been brought most positive-His biographer, by a long statement of facts, endeavors to show that, in the condition of France at that time, with Europe armed against her, the provisionary government were obliged to act as they Fouché's whole endeavor was, did. among many evils, to choose the least. The marshals decided that Paris was not tenable, and a civil war would have totally ruined the country, then occupied by for-The Bourbons returned eign armics, with the foreigners, and every thing was to be feared from the fury of the royalists; and, if the duke of Otranto's motive in accepting the ministry of police, was to prevent civil dissensions as far as possible, and to give to a revengeful administration some alloy of reason, such a sacritice of reputation to patriotism must be regarded as truly noble. He accepted the portfolio expressly on the condition laid down by Talleyrand, that no vengeance should be taken. The party which considered themselves deceived by him became his bitterest enemies. Whatever may be the

opinion of this step of the duke, no one denies that he prevented much evil. He advised the king to adopt the national colors. "Why," said the king, "should I change my colors for another?" " Afin que personne autre que V. M. ne puisse le prendre," unswered the duke of Otranto. The court of the Tuileries soon became what it had been—a focus of arrogance and revenge. The number of victims demanded is supposed to have amounted to 3000: Fouche had it reduced to a few, whom, with all his exertion, he could not save. Hence the motley list, which some have considered as drawn up by the minister to show his power! His enemics say that he should have refused to sign a list containing the names of his own friends, and of persons who had been induced by his advice to act the part for which they were then proscribed. His friends say that his abandoning the portfolio would have been the death-warrant of many more. Talleyrand and Otranto did not sit in the house of peers when Ney was tried, excusing themselves on account of their participation in the ordinance. At this time (1815) the duke of Otranto married a second wife, a lady named De Castellanc. Her family belonged to the nobility before the revolution; and though he might, if his intention had been to unite himself more closely with the royalists, have easily connected himself with a much more distinguished family, yet, under existing circumstances. this step was considered by the liberals as an expression of hostility to them. France was then in a most deplorable state: England and Russia were waging war against each other in the French council. The opposition attacked the government on account of this foreign influence, against which the duke of Otranto incessantly struggled. In this state of things, with the view of trying the effect of an appeal to public opinion, he presented two reports to the king-one on the relations of the foreign armies to the kingdom, their claims, &c.; the second on the resources left to France, particularly the lerée en masse, in which, of course, the royalist party could not form an important The immediate consequence was the union of the royalists and foreign powers to displace the duke. Talleyrand offered him a mission to the U. States, where he wished to live; but his wife's disinclination, and his anxiety for the education of his children, prevented it. He was then sent as minister to Dresden, but not for a long time. In 1816, he

was comprised in the law against the regiendes, and the court of Saxony was not strong enough to protect him. He then retired to Prague, Lintz, and, at last, to Trieste, where he died, Dec. 26, 1820, without complaint or regret, leaving his character to be settled by history. Fouche's life is one of the most important parts of the history of the time in which he lived. He was a highly estimable tather and husband, and educated his children with the greatest care. His whole private life is irreproachable. He loved justice, and enjoyed the good opinion of the most opposite parties. His countenance was expressive of penetration and decision. He was of the middle size, rather thin, of firm health, and strong The tones of his voice were somewhat hollow and harsh; in speech, he was vehement, determined and lively; in his whole appearance he was plain and sample. The Memoires de Jos. Fouche, Duc d'Otrante, etc. (2d part, Brussels, 1824), which appeared at Paris, 1824, are net acknowledged by his sons, who prosecuted the publisher, and gained the case.

Oyster; a well known edible shellfish, belonging to the genus ostrea, occurring in most parts of the world. The European oyster (O. edulis), which forms a considerable article of trade on the coasts of England and France, is generally taken by dradging, after which the animals are placed in pits formed for the purpose, furnished with sluices, through which, at spring tides, the water is suffered to flow. In these receptacles, they acquire the green tinge so remarkable in the European oyster, and which is considered as adding to their value. This color, which at one time was supposed to be owing to some mineral impregnation, has recently been ascertained to arise from the conferva, and other marine vegetable matter, on which the animal feeds. The oysters brought to the different markets in the U. States are furnished by several species, which it is extremely difficult to discriminate, and are known among the venders and epicures of this food by appellations derived from the places from whence they are brought. The business of taking these shell-fish employs a great number of bands, and no inconsiderable amount of tonnage. In . many places, oysters are planted, as it is called; that is, large artificial beds are, than the anterior, they are so bent as to formed in favorable situations, where they are permitted to fatten and increase. The breeding time of oysters is in April or May, from which time to July or August.

the oysters are said to be sick, or in the milk. This is known by the appearance of a milky substance in the gills. Oysters attain a size fit for the table in about a year and a half, and are in their prime at three years of age; though what the natural term of their lives may be, it is difficult, if not impossible, to determine with any degree of accuracy. Many curious discussions have arisen as to whether oysters pessessed the faculty of locomotion. It is well known that, in general, they are firmly attached to stones, or to each other: and it has been stated, and generally believed, that they were not endowed with any powers of changing their position. From the observations and experiments of naturalists, however, it appears that they can move from place to place by suddenly closing their shells, and thus ejecting the water contained between them with sufficient force to throw themselves backward, or in a lateral direction. Oysters form the basis of many culinary preparations, but are much more digestible in their raw state than after any mode of cooking them, as this process, in a great measure, deprives them of the nourishing animal jelly which forms so large a portion of their substance. The shell of the oyster is composed of carbonate of lime and animal matter, and was, at one time, supposed to possess peculiar medical properties; but analysis has shown that the only advantage of these animal carbonates of lime over those from the mineral kingdom arises from their containing no admixture of any metallic substance. The lime obtained from the calcination of oyster shells, though exceedingly pure and white, is better suited for work which does not require great tenacity, as for plastering rooms, than for the common purposes of building, as it does not form as hard a compound with sand as the mineral limes.

PACA (celogenus); a genus of animals inhabiting South America, living in the woods, in/the vicinity of water, concealing themselvet in superficial burrows, which have three openings to them. They are thick set, and of a clumsy form, and, when full grown, measure about two feet in length from the tip of the nose to the extremity of the body, and about one foot in height both before and behind; for, although the hinder legs are much longer allow a much greater proportion of their length to touch the surface of the ground. Their eyes are large, prominent, and of a brownish hue, their ears nearly naked

and their whiskers long and rigid. They swim and dive remarkably well, and run with considerable swiftness. Their cry is not unlike that of a pig. Their flesh is said to be very savory, and forms a staple article of food in many parts of South America. They seldom leave their burrows, except during the night, when they sally forth in search of their food, which consists of herbs and fruit. They are taken alive by closing two of the openings to their burrows, and digging up the third. They often make an obstinate defence, and are capable of biting very severely. They are readily tamed, and might prove a valuable addition to our stock of domestic animals, especially in the Southern States, where the winter is not sufficiently severe to injure them. They are very prolific, and, in a warm climate, would require but little attention.

PARTRIDGE (perdix). The partridges were formerly classed with the grouse (q.v.), in the genus tetrao, till they were formed into a separate genus by Brisson, since which they have been still further divided into subgenera by Temminck, Cuvier, &c. These are, 1. francolinus, having a long, strong beak, large tail, and generally strong spurs: 2. perdir; the beak less powerful; males with short spurs or simple tubercles; females destitute of these detences: 3. coturnix; smaller than perdix; beak small, tail short, no spur, and destitute of the red eye-lid: 4. ortyr; beak thick and short; tail more developed. The gray or English partridge (P. cinereus) belongs to the second of these subgenera. It is distinguished by having the bill and feet of a light brown color, the head fawn color, and the plumage brown and ashcolored, mixed with black: the male has a deep-brown crescent on his breast. This species is found in all the temperate parts of Europe, and is very abundant in England. They pair early in the spring, England. They pair early in the spring, and the female lays from fourteen to twenty eggs, in a nest composed of dry leaves and grass. The young can run about as soon as they are excluded from the egg. The affection of the partridge for her young is very strong, and in taking care of them, she is assisted by the male. They frequently sit close to each other, covering the young with their wings, and, when in this situation, are not easily. roused. The principal food of the young partridges are ant-eggs and insects; but, when full grown, they feed on all kinds of grain. The red or French partridge (P. rufus) also belongs to this subdivision. It is larger than the last-mentioned species.

has red feet and beak, is brown above, and its sides are beautifully variegated with ferruginous and ash-color; the neck is white, with a black margin. The red partridge lives on higher grounds than the gray, preferring hills. The flesh is whiter and less juicy. There are many other species inhabiting Europe and Asia which it is needless to particularize. Those belonging to the other two subgenera are known under the name of quails, though, in Pennsylvania, and some other states, the American species is also termed par-(See Quail.) The above-mentridge. tioned birds form an important part of what is denominated game among the modern nations of Europe, the killing of which has been made the subject of public regulations. (See Game Laws.)

Peccary (dicotyles). The peccaries bear a strong resemblance to the hog, but are sufficiently dissimilar to justify their separation as a distinct genus. The most striking difference between them, and every other species of quadruped, is the existence of a large gland under the skin on the middle of the loins. This gland secretes a fluid of a very offensive smell. In their habits, however, they are closely allied to the hog: their gait is the same; they root up the earth in a similar manner, and express their feelings by the same disagreeable grunt. They are equally susceptible of domestication; but, from the fetid smell emitted by the gland on their back, they have never been tained to any extent. Their flesh, also, is much inferior to pork in flavor. They are peculiar to South America, living in the extensive forests of that country, in hollows of trees, or in burrows made by other animals. There are only two species -the collared peccary (D. torquatus), and the white-lipped peccary (D. labiatus). These differ more in habits than they do in appearance: the former is the smaller, and lives in pairs, or in small herds, never migrating. The latter assemble in large herds, sometimes amounting, it is said, to more than a thousand individuals. These herds traverse extensive districts, never turning from their line of march for any obstacle. If attacked, they fight with great fury, and the only escape for a huntsman, under such circumstances, is in ascending a tree. The smaller bands are not as dangerous, generally taking to flight on the first attack. When irritated, they erect their bristles, rub their snouts together, and make a continued grunting. The secretion from the gland in this species is not as fetid as in the other.

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